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EXTREMELY LOW FREQUENCY VERTICAL, 45-Hz ELECTRIC FIELD EXPOSURE OF RATS: A SEARCH FOR GROWTH, FOOD, AND WATER CONSUMPTION, BLOOD METABOLITE, HEMATOLOGICAL, AND PATHOLOGICAL CHANGES

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June 1977



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AFIRRI SR77-2

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Research was conducted according to the principles emisciated in the "Guide for the Cern and Use of Laboratory Animals," prepared by the Institute of Laboratory Animal Resources, National Research Council.

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U. S. Naval Medical Research and Development	UNCLASSIFIED
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20. ABSTRACT (continued)

used 48 control animals and 48 animals exposed to 20 V/m (RMS) to minimize the possibility of missing a true alteration. Although some differences were found in three experiments (E, F, and H) neither a dose effect relationship nor a biological effect due to exposure was observed. In experiment G, no statistical differences (p< 0.05) were observed for any variables. It was concluded that no alterations in growth, food consumption, or water consumption resulted from exposure to extremely low frequency (ELF) electric fields. Neither serum or plasma concentrations of total protein, globulin, glucose, cholesterol, triglycerides and total lipid nor hematological values for red blood cells, white blood cells, segmented neutrophils, lymphocytes, monocytes, eosinophils, hematocrit or hemoglobin appear to be influenced by ETF fields. In addition, necropsy and histopathological examination of tissue from 16 organ systems did not reveal any changes that could be attributed to electric fields. Project was sponsored by the U. S. Naval Medical Research and Development Command, contract number XSBØ9.

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PREFACE

The authors gratefully acknowledge the valuable assistance of S. A. Oliva for designing and maintaining the electronic systems of the exposure facility, C. A. McIntire III and W. E. Jackson III for performing the computer programming and statistical analyses, J. E. Egan for the hematological analyses, and G. D. Lee for preparation of the tissue specimens. We further acknowledge the invaluable efforts of A. L. Miller, A. E. Cummings, and P. W. Jones for the care and timely manner in which these experiments were performed. This project was sponsored by the U. S. Naval Medical Research and Development Command, contract number XSBØ9.

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INTRODUCTION

Extremely low frequency (ELF) radiation generally denotes electromagnetic radiation having frequencies from a few hertz (sometimes including zero hertz or de) to several hundred hertz. The natural or ambient levels of ELF radiation have been reviewed by Polk; however, the extent to which these fields may interact with biological systems is still the subject of considerable research. The largest source of man-made ELF radiation comes from commercial electrical power lines operating at 50 or 60 Hz. With the recent development of the Navy's ELF Communications System for operation at 45 or 75 Hz, yet another man-made source of this radiation will come into existence.

It has become apparent that at least certain biological systems can sense and utilize ELF fields. For example, some birds are affected by weak magnetic fields, ¹⁸ and it is proposed that they may use terrestrial magnetic fields to aid in orientation. ²⁰ Kalmijn has presented data suggesting that sharks and rays can locate prey by the weak ELF electric fields they produce, and that some fish may also be able to use terrestrial fields in obtaining orientational and navigational information. ⁵ Other biological effects from ELF fields have been reported by Goodman et al. on Physarum polycephalum and by Gavalas-Medici and Day-Magdaleno on monkeys. ²

Recently, large 60-Hz electric fields have been reported to reduce the growth of rats¹⁰ and mice. ⁹ Noval et al. ¹³ have reported that 45-Hz vertical electric fields at field strengths of up to 100 V/m (RMS) produced reduced growth, reduced abdominal body fat, and altered brain and liver enzyme activities. The present work represents an attempt to verify the existence of lowered growth rates for rats exposed to similar 45-Hz, vertical electric fields and to determine if food and water consumption, serum metabolite concentrations, or the parameters of a complete blood count were perturbed. A preliminary report of this work has been submitted elsewhere. ¹²

MATERIALS AND PROCEDURES

Animals. Male Sprague-Dawley rats, approximately 180 g, Har:(SD) (1), obtained from Hilltop Lab Animals, Inc., Scottdale, Pennsylvania, were used for all experiments. Animals were quarantined, evaluated for health status, and then randomly assigned to individual cages within the six exposure chambers of the irradiation facility. Body weight, feed consumption, and water consumption data were obtained three times each week during the exposure period and the 5-day preexposure acclimatization period. The diet was a standard commercial rodent feed (Wayne Lab-Blox, Allied Mills, Inc., Chicago, Illinois) obtained in pulverized form for food consumption measurements. Food and water were provided ad libitum.

Irradiation facility. The irradiation facility has been described completely in a previous report. 11 It was contained in a typical laboratory room maintained under slight positive air pressure, minimizing outside contamination. Access was restricted to personnel concerned with this research, who wore clean gowns, masks, and gloves. Room air was circulated at 23 room-volumes per hour and filtered by HEPA and activated alumina filters. Illumination was provided 12 hours each day from room and chamber lights, beginning at 6:00 a.m. Temperature was controlled at $22^{\circ} \pm 2^{\circ}$ C and continuously recorded; relative humidity was not controlled, but a continuous record indicated it remained between 25 and 55 percent.

There were six identical exposure chambers contained in three racks, each rack consisting of an upper and a lower chamber. Each exposure chamber contained 16 nonmetallic cages described previously, 11 providing food from a 250-cm 3 glass jar and water from a glass sipper tube and 250-cm 3 glass bottle. Chambers were horizontal, parallel plate capacitors with an upper plate of aluminum screen, a lower plate of aluminum sheet, and an average plate separation of 46.4 ± 0.3 cm (S.D.).

A signal generating and signal monitoring system provided the sinusoidal 45-Hz voltage, which could be independently varied from a nominally zero field strength value up to 1000 V/m (RMS) for each chamber. This system contained two signal generators to provide a backup generator if the primary signal generator failed and circuitry to sound an alarm if both systems failed. Voltage and frequency were routinely measured to within ± 0.5 percent.

The 45-Hz exposure field and existing ELF fields were measured by the Illinois Institute of Technology (IIT) Research Institute, Chicago, Illinois. Data were obtained for electric and magnetic fields at 15, 45, 60 and 180 Hz, and were presented in the report of this facility. ¹¹ The largest ambient field (45-Hz fields turned off) was found at 60 Hz. The average value of the 60-Hz electric field per cage was obtained for each animal position.

Experimental design. Four experiments (lettered E through H) were performed using the six exposure chambers, each containing 16 animals housed one per cage (Table 1). Six groups of 16 animals at field strengths of 2, 10, 20, 50 and 100 V/m (RMS) plus a control were used in experiments E, F, and H in an attempt to determine whether a dose versus effect relationship exists. It was assumed in the experimental design that any dose effect relationship that might be found would be monotonic; i.e., if an alteration were observed at one

Table 1. Experimental Design and Animal Usage

Exposure		Exper	imental grou	Þ
conditions (V/m)	E	F	G	Н
Controls	16	16	16, 16, 16	16
2	16	16	į	16
10	16	16		16
20	16	16	16,16,16	16
50	16	16		16
100	16	16		16
Animals/group	96	96	96	96
Total animals			384	

field strength, the alteration produced by a higher field strength would be at least as large. The field strengths chosen cover the range of field strengths reported by Noval et al. ¹³ as having produced the growth alteration previously mentioned. Experiment G was designed to maximize the number of animals for one field strength by using three chambers as controls and three chambers at a field strength of 20 V/m (RMS) (see Table 2). This configuration minimizes the chance of making a type-II error, i.e., the failure to declare a result significant for a fixed level if a real effect is present. The field strength of 20 V/m (RMS) was chosen because this value produced the effects observed by Noval et al., 13 and it is approximately one hundred times greater than what the ELF Communications System would generate. Because of the large number of animals in each 45-Hz group of experiment G, a further classification into four 60-Hz field strength groups can be made (Table 3). This classification was analyzed using two-way analysis of variance to test for 45-Hz and 60-Hz effects, and to determine if the 45-Hz and 60-Hz fields interact. Chambers were permanently numbered from one through six for reference, and chamber

Table 2. Electric Field Strengths Applied to Each Chamber for Each Experiment

Exposure	chamber	45-I	lz fiel (V/m	d strei (RMS))	_
Number	Position		Exper	riment	
		E	F	G	H
1	U	С	100	20	50
2	L	2	10	С	20
3	U	10	2	20	С
4	L	20	50	С	10
5	U	50	20	С	100
6	L	100	С	20	2

16 animals per chamber

C denotes control group (no 45-Hz fields applied)

U denotes upper chambers

L denotes lower chambers

Table 3. The Number of Animals in Each Group of the 45-Hz and 60-Hz Two-Way Analysis of Experiment G

Frequency (Hz)			strength (RMS))		Total
45	. 21 42	. 53 84	1.1-1.7	2.6-3.8	animais
Field strength (V/m(RMS)) 0	24	8	12	4	48
20	12	4	24	8	48
Total animals	36	12	36	12	96

bias was minimized by utilizing each chamber as a control or for a given field strength only once (Table 2).

After the exposure period, animals were withdrawn from the exposure room one at a time, given an intraperitoneal injection of chloral hydrate at a dose of 36 mg per 100 g of body weight, and placed in a clean cage. When one animal from each group had been obtained and all six had become unconscious, the animals were taken to a separate room where euthanasia was completed by heart puncture and exsanguination. Three milliliters of blood anticoagulated with EDTA at a final concentration of 8 mM were used for hematological analysis. The remainder of the sample was allowed to clot for 1 hour at room temperature, then centrifuged at 600 x g for 15 min to remove the clot, separated into aliquots, and frozen at -60°C for later biochemical analysis. For experiments G and H, this procedure was modified in three ways to reduce the variability caused by recent food consumption and aggressive behavior exhibited by the six animals when placed together in one cage. First, food was withdrawn at 4:00 p.m. on the day before euthanasia; second, animals were kept in separate cages until euthanasia; and third, plasma was obtained from blood containing 5 mM potassium ethylenediaminetetraacetate by centrifugation at 600 x g for 15 minutes.

Biochemical analysis. Total protein and globulin assays were performed on the AutoAnalyzer (Technicon Corporation, Tarrytown, New York) by the technique of Sobocinski et al. ¹⁷ Glucose, cholesterol, triglycerides, and total lipids were assayed using commercial reagents and standards from Boehringer Mannheim Corporation (New York, N. Y.) with the following catalog numbers: 15715, 15738, 15989, and 15991, respectively. Unknowns and quantitative serum controls (Monitrol I and II, Dade Division, American Hospital Supply Corporation, Miami, Florida) were assayed simultaneously in a random sequence.

Hematology. Red and white cell counts were obtained using the Coulter Counter Model B (Coulter Electronics, Inc., Hialeah, Florida). Hematocrit values were obtained by reading capillary tubes after centrifugation, and hemoglobin was estimated by the cyanomethemoglobin method employing Drabkin's solution (Hycel, Inc., Houston, Texas).

Pathology. Necropsies were performed on a minimum of four randomly selected animals from each group. Specimens from the skin, brain, salivary gland, lung, heart, stomach, duodenum, cecum, colon, liver, spleen, kidney, urinary bladder, adrenal gland, pancreas, and testes were fixed in 10 percent buffered Formalin for histopathologic examination. Adrenal glands and spleen were weighed when removed from the body. Tissue preparation and staining were performed according to accepted methods as outlined in the Armed Forces Institute of Pathology Manual. Hematoxylin and eosin were routinely used, but selected samples were submitted to Gomori's methenamine silver stain, Brown-Brenn tissue gram stain, and the periodic acid-Schiff (PAS) reaction.

Statistical analysis. Histograms of individual observations were used to determine if nonparametric statistical tests should be employed. Based on this evaluation, body weight, food consumption, and water consumption data were analyzed using the t-test or analysis of variance (parametric methods) followed by the Neuman-Keuls test¹⁹ (nonparametric method) if significance was observed (p< 0.05). For biochemical and histological analyses, significance

(p<0.05) was tested using the one-way analysis and multiple pairwise comparisons of the Kruskal-Wallis tests⁴ or the Mann-Whitney test¹⁶ (nonparametric methods).

RESULTS

During these experiments the exposure facility operated without failure. Routine monitoring of the signal-generating systems (at least three times a week) revealed that the chamber voltages remained constant to within +4 and -2 percent, and the 45-Hz frequency did not vary more than \pm 0.5 percent.

In this research, growth is defined as the net change in body weight of the test animal. Since the duration of these experiments was short (28 days) and since all animals used were approximately the same age, the average values of growth per day, food consumption per day, and water consumption per day are valid measures for comparing groups within an experiment. These values were calculated by obtaining the total change in body weight or the total weight of food or water consumed for each animal and dividing by 28 (number of days in the exposure period).

Analysis of growth, food consumption and water consumption during

45-Hz electric field exposure. The average body weight and the average growth
per day for each group and each experiment are summarized in Figure 1. The
cumulative food and water consumption and the food and water consumption per
day for each group and each experiment are summarized in Figures 2 and 3.

The daily summary of body weight, growth, and cumulative and daily consumption of food and water are presented in Appendix A. The strictly monotonic relationship observed for growth, food consumption, and water consumption showed
that these experiments were well controlled. The small depressions observed
in the body-weight change/day curves (e.g., in G experiment on days 10, 18 and
25) always occurred after the cage bedding was changed, and may have resulted
from the animal's attempt to mark his new bedding by defecation. ¹⁵ Notice that

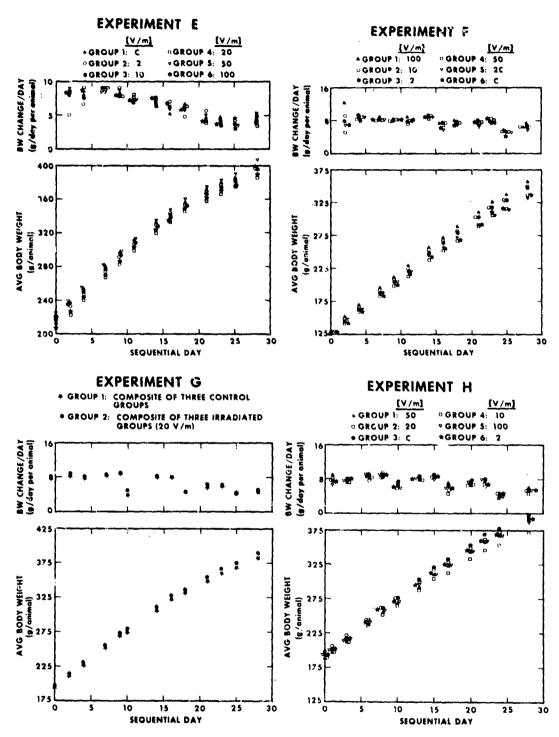


Figure 1. Graphical summary of the average body weight and daily growth for each group during exposure

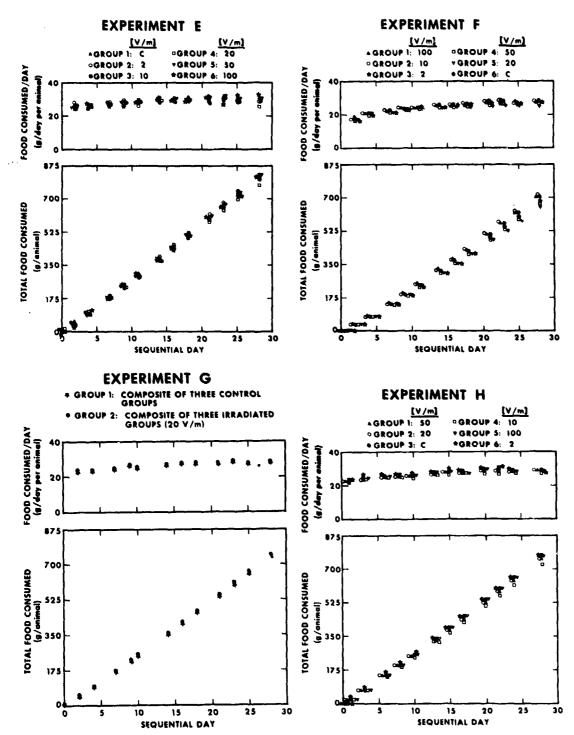


Figure 2. Graphical summary of food consumption data during exposure

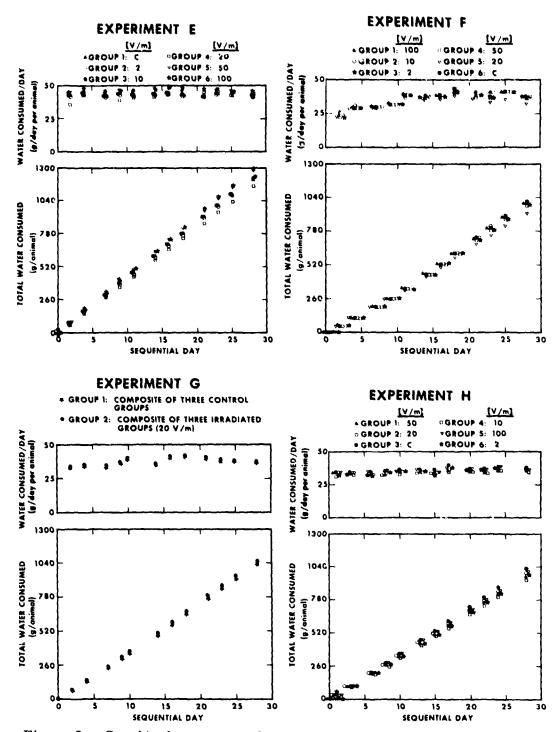


Figure 3. Graphical summary of water consumption data during exposure

these readily visible depressions in growth per day are the result of a virtually indistinguishable displacement in the average cumulative body weight curves.

In three experiments (E, G and H), no statistically significant differences were found between any experimental or control groups for growth per day, food consumption per day, or water consumption per day when these parameters were compared at the several 45-Hz exposure field strengths used (Table 4). In experiment F, statistical analysis revealed no difference in water consumption per day between any experimental or control groups, although differences

Table 4. Statistical Summary of the Analysis of Variance of Growth, Food Consumption and Water Consumption

Variable	Experiment									
Variable	E	F	G	н						
Δ BW/Δ day	1	**	-	-						
∆ Food/∆ day	-	**	-	-						
Δ Water/Δ day	-	-	-	-						

- Not significant (p> 0.05)
- ** Significant difference (p< 0.01)

in growth per day and food consumption per day were observed. For growth per day, significant differences (p< 0.05) were found between the 100 V/m group and the 2, 20. and 50 V/m groups, but not between that group and the control or 10 V/m groups. For food consumption per day the only difference (p< 0.05) was between the 20 V/m, 100 V/m, and 10 V/m groups but not between the control, 2 V/m, or 50 V/m groups. These differences are not biologically important, as suggested by the findings that (1) the differences observed in experiment F were not observed in experiments E, G and H, i.e., the alterations were not reproducible, and (2) no dose versus effect relationship was apparent from these differences (Figure 4). Thus, all four experiments indicate that rat growth, food consumption, and water consumption

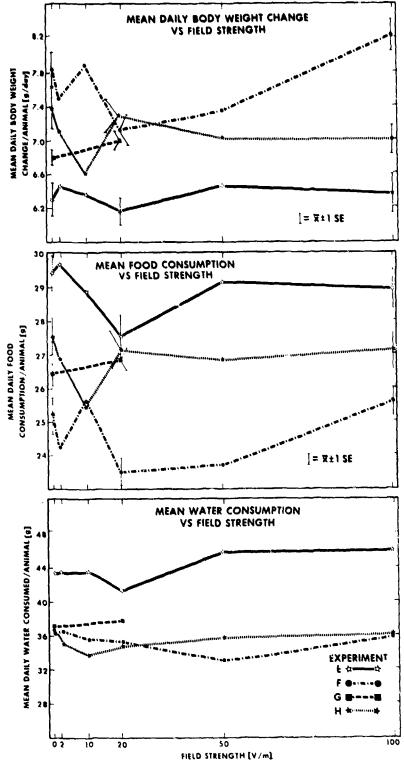


Figure 4. Summary of the mean growth, food and water consumption data versus 45-Hz field strength

were not altered by exposure to 45-Hz ELF electric fields of up to 100 V/m for up to 28 days.

Analysis of biochemical and hematological results versus 45-Hz field strength. In Appendix B are values for each biochemical and hematological parameter measured on all control and experimental animals and a statistical summary for each control and experimental group. Analysis of these data (Table 5) showed that no consistent alterations were found in any of the parameters measured in any of the four experiments performed. Findings for individual parameters are summarized below.

Table 5. Statistical Summary of the Kruskal-Wallis Analysis of the Blood Biochemistry and Hematology Data

	E	xper	imen	t						
Variable	£	F	G	Н						
TP	-	٠.,	-	*						
Gப்OB	-	-	-	*						
GLU	**	*	-	*						
TL	**	-	-	-						
(HOL	-	-	-	-						
TRIG	-	-	-	-						
RBC	**	**	-	-						
WBC	-	-	-	-						
POLY	-	-	-	-						
LYHS	-	-	-	-						
HCT	**	-	_	-						
HGB	*	-	-	-						
моио	withi	n nor	mal	limits						
EOS	within normal limits									

- Not significant (p > 0.05)
- * Significant difference (p< 0.05)
- ** Significant difference (p< 0.01)

Total protein: In experiments E, F and G, no groups were statistically different from the control or from each other. In experiment H, only the control and 100 V/m group differed. No trend or dose relationship was observed (Figure 5).

Globulin: In experiments E, F and G, no groups were statistically different from the control or from each other. In experiment H, only the control and 100 V/m group differed. No trend or dose relationship was observed (Figure 5).

Glucose: In experiment G, where the statistical test should be most sensitive, the control and irradiated groups were not statistically different. In experiment E, only the control and 2 V/m groups differed. In experiment F, the control group, 20 V/m group, and 100 V/m group were statistically different; and in experiment H, only the control and 100 V/m groups were statistically different. No consistent pattern of statistical difference or dose relationship was observed throughout these experiments (Figure 5). In addition, some of the apparently large variability observed in experiments E and F may be due to the euthanasia procedure used (see below).

Total lipids: In experiments F, G and H, no groups were statistically different from the control or each other. In experiment E, only the 2 V/m group and the 100 V/m group differed. No trend or dose relationship was observed (Figure 6).

Cholesterol: In all experiments (E, F, G and H), no groups were statistically different from the control or from each other, and no trend or dose relationship was observed (Figure 6).

<u>Triglycerides</u>: In all experiments (E, F, G and H), no groups were statistically different from the control or each other, and no trend or dose relationship was observed (Figure 6).

Red blood cells: In experiments G and H, no groups were statistically different from the control or from each other. In experiment E, differences were found between the control and the 10, 50 and 100 V/m groups, but

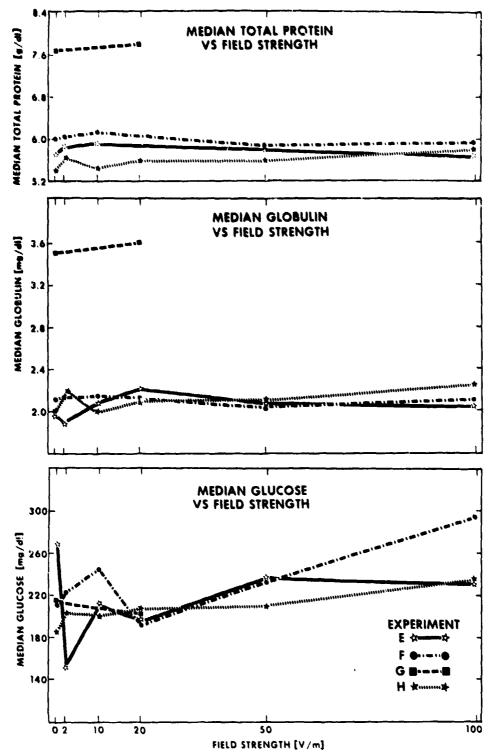


Figure 5. Summary of median total protein, globulin and glucose data versus 45-Hz field strength

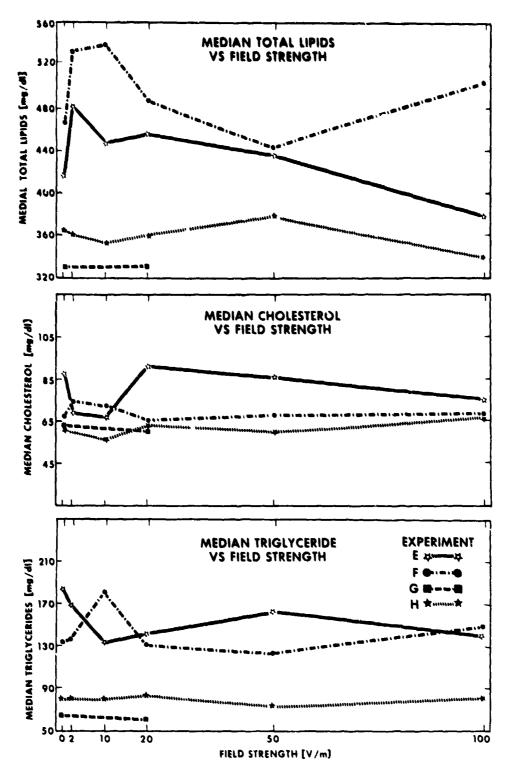


Figure 6. Summary of median total lipid, cholesterol and triglyceride data versus 45-Hz field strength

not between the 2 and 20 V/m groups. Additionally, statistically significant differences were found between the 2 V/m group and the 10, 20, 50 and 100 V/m groups. In experiment F, statistically significant differences were found between the control and the 2, 10 and 50 V/m groups. However, since these differences were not reproduced in experiments G and H, the pattern of statistical difference in experiments E and F may be related to the euthanasia procedure (see below). Considering all experiments, no trend or dose relationship was observed (Figure 7).

White blood cells: In all experiments (E, F, G and H), no groups were statistically different from the control or from each other, and no trend or dose relationship was observed (Figure 7).

Segmented neutrophils (POLY): In all experiments (E, F, G and H), no groups were statistically different from the control or from each other, and no trend or dose relationship was observed (Figure 7).

<u>Lymphocytes</u>: In all experiments (E, F, G and H), no groups were statistically different from the control or from each other, and no trend or dose relationship was observed (Figure 8).

Hematocrit: In experiments F, G and H, no groups were statistically different from the control or from each other. In experiment E, only the 2 V/m and 50 V/m groups were different from each other. No trend or dose relationship was observed (Figure 8).

Hemoglobin: In experiments F, G and H, no groups were statistically different from the control or from each other. In experiment E, only the 2 V/m and 50 V/m groups were different from each other. No trend or dose relationship was observed (Figure 8).

In experiments G and H, an improved euthanasia procedure was used in which plasma was obtained from control and irradiated animals that had fasted for approximately equal periods of time, and that were not excited since the animals had been caged separately until euthanasia to prevent stress. As a result of these improved procedures, marked reductions were noted in the group

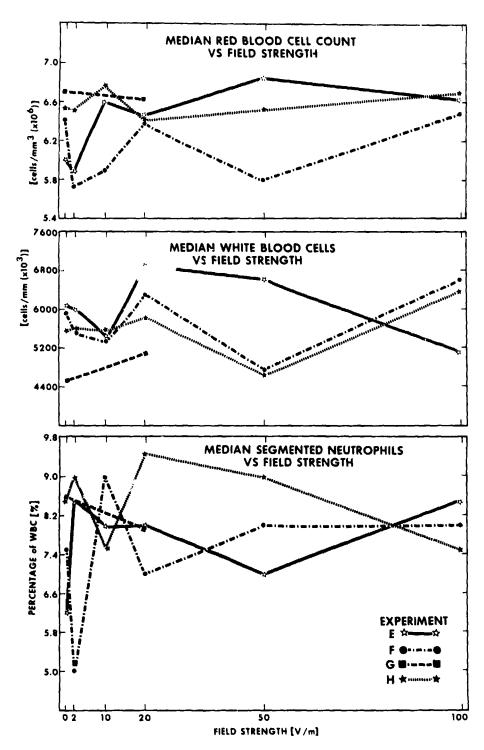


Figure 7. Summary of median red blood cell, white blood cell and segmented neutrophil data versus 45-Hz field strength

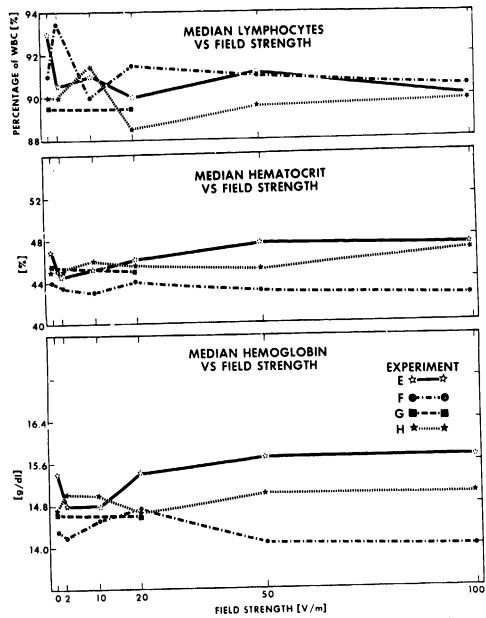


Figure 8. Summary of median lymphocyte, hematocrit and hemoglobin data versus 45-Hz field strength

to group variability (Figures 5-8) and the within group variability for glucose, total lipids, cholesterol, triglyceride, red blood cell, hematocrit, and hemoglobin values. It can be stated with a high degree of confidence that there were no differences in the plasma or serum values of the biochemical variables used

in this study. After completion of serum triglyceride assays for experiments E and F, it was observed that free glycerol was present in the commercial standards used. To correct the triglyceride values in experiments E and F, the values reported in Appendix B and the group medians of Figure 6 must be multiplied by 0.66. This constant factor does not alter the results from statistical analysis. The accuracy of this correction factor and of the measurements in experiments G and H was verified by using two independent standards (Precilip, Boehringer-Mannheim Corp., New York, N. Y., and Triolein, Sigma Chemical Company, St. Louis, Missouri) as well as the known molar extinction coefficient of the reduced form of nicotinamide-adenine-dinucleotide (NADH).

Pathology versus 45-Hz field strength. All animals used in this analysis were coded and analyzed in a blind manner. No gross lesions or differences in adrenal and spleen weights were observed at necropsy, and no significant microscopic changes were present in any of the tissues.

Two-way ANOVA for 45- and 60-Hz effects. Detailed analysis of field map data after completion of experiments E, F, G, and H suggested that the level of the contaminating 60-Hz electric field had been underestimated in the initial field map. 11 In an attempt to determine the effect of this field on the results of the 45-Hz analysis, the data from experiment G were separated into four groups according to the average 60-Hz field strength per cage for two-way analysis of variance as shown in Table 3. Since the experiment was not initially designed to examine possible 60-Hz effects, the two-way classification did not yield groups of equal size. In addition, random animal positioning at the beginning of the experiment happened to allow the group exposed to the highest 60-Hz field strength to start with an average initial body weight slightly heavier than the other groups. As a result, care must be taken when interpreting results of the two-way analysis of variance for growth per day, food consumption per day, and water consumption per day shown in Table 6. Despite these restrictions, certain statistically valid comparisons can be made. There were no statistically significant differences (p<0.05) between the control and 20 V/m groups

Table 6. Statistical Summary of the Two-Way Analysis of Variance on 45-Hz and 60-Hz Field Strengths of Experiment G

Variable	Factor one 45 Hz	Factor two 60 Hz	Interaction
Δ BW/Δ day	-	-	-
Δ Food/Δ day	-	*	-
∆ Water/∆ day	-	**	- ,

- Not significant (p> 0.05)
- * Significant (p<0.05)
- ** Significant (p< 0,01)

at 45 Hz for growth per day, food consumption per day, or water consumption per day. Neither was the interaction between the 45-Hz and 60-Hz fields found to be significant for growth per day, food consumption per day, or water consumption per day. Further, there was no alteration of growth which is attributable to the 60-Hz field. The statistical differences observed in the data on food consumption per day and water consumption per day occurred only between the highest and lowest field strength groups. Thus, the statistically significant results obtained were most likely not biologically important because (1) the animals in the group exposed to the highest field strength started with an average initial body weight slightly heavier than the other groups, and (2) the food and water consumption correlated strongly with initial body weight. This conclusion is reinforced by the expectation that a biologically important alteration in food and water consumption would be reflected in a growth alteration. To complete the 60-Hz analysis, the biochemical and hematological data were tested for significance; results are presented in Table 7. No statistically significant differences were observed for glucose, total lipids, cholesterol, triglycerides, white blood cells, segmented neutrophils (POLY), lymphocytes, hematocrit, or hemoglobin. Significance occurred in total protein and globulin data only between the highest and next highest field strength groups, and in the red blood cell data only between the lowest and next lowest field strength groups.

Table 7. Statistical Summary of the Kruskal-Wallis Analysis on 60-Hz Field Strengths of Experiment G

Variable	Significance
TP	*
GLOB	**
GLU	-
TL	v
CHOL	-
TRIG	-
RBC	*
WBC	-
POLY	-
LYHS	-
нст	-
HGB	-

- Not significant (p> 0.05)
- * Significant difference (p< 0.05)
- ** Significant difference (p< 0.01)

Because no significant differences were observed for any variable between the highest and lowest field strength groups or between the two field strength groups with 36 animals each, no biological significance was attributed to these differences.

DISCUSSION AND CONCLUSIONS

Theoretically, ELF radiation can be separated into terrestrial and manmade radiation. The terrestrial field strength in the exposure facility was not measured, but is considered to be negligible compared to the experimental field strengths. Man-made fields at frequencies from 25 to 60 Hz are present anywhere electric power is used. ²¹ For example, under high-voltage power lines,

electric field strengths of thousands of volts per meter are found; and in the laboratory, every operating electrical appliance is an ELF irradiator. The man-made 45-Hz fields in our exposure facility were documented by the IIT Research Institute. They also documented a contaminating 60-Hz field which was present in all chambers, i.e., both irradiated and control. 11

No biologically important differences were found for any of the variables studied. No statistically significant differences were observed in any experiment for the following variables: water consumption, serum or plasma cholesterol, serum or plasma triglycerides, white blood count, segmented neutrophils, lymphocytes, adrenal weights and spleen weights. No significant differences were observed in any of the histopathological analyses. For the following variables, the only observed significant statistical differences occurred between irradiated groups: growth per day, food consumption, serum or plasma total lipids and hemoglobin. Significant differences between the control and irradiated groups occurred only for total protein, globulin, red blood cells, and hematocrit. Further, no dose-relationship was observed between the exposure field strength and any of the variables studied. The most unequivocal results are from experiment G, in which 48 animals were used in both control and 20 V/m exposed groups. No significant differences were observed for any of the variables measured in this experiment.

The data from experiment G were subjected to two-way analysis of variance to test the possibility that the contaminating 60-Hz fields in the exposure facility affected the results of the 45-Hz analysis. No significant differences (p<0.05) were found in growth per day for the 45-Hz or 60-Hz fields; further, no significant interaction was observed for growth per day, food consumption, or water consumption. These findings together with the fact that the two 60-Hz groups (of 36 animals each) were not significantly different from each other led to the conclusion that the 60-Hz fields in this experiment did not produce a biologically important alteration. From this analysis it is surmised that the data from the 45-Hz fields also were not affected.

A bilot experiment gives further indication that ambient fields did not perturb the negative finding of the 45-Hz analysis. In that experiment the average growth rate for 96 animals was found to be 7.8 grams per day per animal. These animals were fed and handled using procedures identical to those in experiments E, F, G, and H; however, they were housed in rat cages of standard No. 2 mesh and sheet stainless steel. At our request, the IIT Research Institute determined that these cages provide better than -40 dB of electric field shielding at 60 Hz (Appendix B of reference 11). Thus, these animals (in the pilot experiment) were grown for 28 days in an ambient 60-Hz electric field which was less than 0.010 V/m (RMS). If the ambient electric fields present in experiments E, F, G, and H had produced a growth reduction in all experimental groups of at least 20 percent (the smallest growth reduction reported by Noval et al. 13), then these shielded animals would have growth rates greater than 9.2 grams per day per animal. Instead, the growth rate of the animals in this pilot experiment (7.8 grams per day per animal) is well within growth rates measured for the six groups of animals in experiment F (Figure 4) which were the same age as in the pilot study.

The findings of this research are consistent with the work of Knickerbocker et al. ⁶ and Krueger and Reed. ⁷ Knickerbocker et al. exposed male mice to a vertical electric field of 157,000 V/m at 60 Hz for 10-1/2 months (6-1/2 hours each day), and analyzed for differences in growth, reproduction, gross pathology, and histopathology. Although they noted that the unexposed male progenies of the exposed animals did not grow to be as heavy as the male progenies of the control animals, no other statistical or biological differences were observed. Krueger and Reed exposed female mice to horizontal electric fields of 100 V/m at both 45 Hz and 75 Hz. No statistical differences were observed between exposed and control animals in rate of growth, serotonin levels of blood and brain, or susceptibility to challenge by influenza virus.

After exposing 384 young, male Sprague-Dawley rats for 28 days to 45-Hz vertical electrical field strengths of 2, 10, 20, 50 and 100 V/m (RMS), no

biologically significant differences were observed for any of the measured variable. Further, no dose relationship was found for any of these variables versus the applied 45-Hz field strengths.

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APPENDIX A

Daily Summary of Body Weight, Growth, and Cumulative and Daily Consumption of Food and Water

The following seven tables (A-1 through A-7) summarize the actual raw growth and consumption data for each experimental group of the four experiments (E, F, G, and H). In addition, the dates were obtained and a summary of the temperature and relative humidity on those dates is provided. The field strength and chamber position (either upper or lower) for any group can be obtained from Table 2 of the text.

The headings for each column are defined (proceeding from left to right) as:

DATE:

date these data were obtained; expressed as

day/month/last digit of the year

DAY:

the number of days these animals have been exposed

TEMP:

the average ± the range of room temperature (OF),

taken over the interval from the previous data day

to this day

HUMIDITY:

the average \pm the range of relative humidity (% RH),

taken over the interval from the previous data day

to this day

N:

the number of animals in each group, either 16 or

48; or when an animal's food or water consumption could not be accurately measured due to an accident;

(e.g., bottle was spilled), it then becomes the smallest

number of animals used for any one of the calculations

for this date

BODY WEIGHT:

XBAR

the average mass (g) per animal for this group

SD

the standard deviation of XBAR (g)

CHG, BODY WT:

XBAR average change in mass per day (g/day) per animal for

this group, taken over the interval from the previous

data day to this day

SD the standard deviation of XBAR (g/day)

FOOD CONSUMED AND WATER CONSUMED:

XBAR average food (water) consumed per day (g/day) per animal

for this group, taken over the interval from the previous

data day to this day

SD standard deviation of XBAR (g/day)

TOTAL TO DATE average of cumulative food (water) consumed (g) per ani-

mal from day zero to this day

SD standard deviation TOTAL TO DATE (g)

ASTERISK (*) this symbol is used to note that the data from all animals

could not be used; where N = 16 for experiments E, F,

and H, or N = 48 for experiment G. Further information

is provided in the next paragraph

It was necessary to delete three animals from experiment F because they accidently went without water over a weekend. This accident occurred early in this experiment, and animals resumed normal drinking, eating, and growth values; therefore, these animals were not deleted from the biochemical and hematological analyses. Because one animal was deleted from group two (Table A-3) and two animals were deleted from group six (Table A-4), asterisks indicate that fewer than the usual number of animals were used for each day.

TABLE A-1

	EXPERIMENT													
		•												
	GROUP I							B.305 A	Out to the time to			HATER	CONSUMED	
DATE	-	M1381 B 1 904	DODY I			של אנד.	unan.		TOTAL	E D	XBAR	SD	TOTAL TO DATE	SD
PM12	DAY TER	HUMIDITY	H XBAR	30	XBAR	5 D	KBAR	SÞ	TO DATE	50	2016	Þυ	IO DATE	35
P/ 4/3	0 8+6-6	0+ 0- 0	16 221.93	12.20	0,00		8.60	0,00	6,60	0.00	0.00	8.88	8.88	0.08
3/ 4/3	2 72+8-0		16 237.80	13.17	7,93	1.18	26,40	1,51	52.88	3.03	42.45	4.93	84.96	9.86
11/ 4/5			16 253.60	14.69	7,94	1.50	26,38	1,68	105,57	5.97	44.51	5.42		20.10
14 4/3	7 72+0-1		16 260.33	16.88	8,89	1,63	28, 19	1.79	190,14	9,59	43.15	6,40		30.46
19/ 4/3			16 296.76	16.74	0,26	1.13	20.75	1,64	247.64	15.33	44, 18	5,87		49.94
187 473	11 71+1-0	42+ 6- 2	15 311.44	19,54	7,34	3,58	28.00	1.85	303,00	14.67	42.65	6.10		60.95
21/ 4/3	14 71+0-0	40+ 0- 2	16 332.83	23.51	6,87	1.67	29,88	2.50	393,43	15,97	43.14	6,63		88.45
23/ 4/3	14 72+0-0	42+ 6- 2	16 342.55	26,43	5.25	3.21	30.57	2,73		24,20	44.05	7.14	694,84	94.02
25/ 4/5	18 70+2-6	57+ 0- 1	16 355.81	26.56	6.63	2.97	31.43	3,25	917,44	29.60	43.63	7,08	781.31 1	06,20
28/ 4/3	21 71+0-0	43+ 0- 3	16 369.77	28.63	4.65	1.63	30.67	2,07	609, 44	34.59	43.96	0,92	913,20 1	26.12
		53+ 0- 1		29.14	4,73	1.67	31,66	3,49	672.77	39.35	43.96	6,99	1001.12 1	
		54+ 8- 1		20.20	2,98	1.48	29,92	3,22	734.07	44.69	42.46	6.36	1066.04 1	
	GROUP 2													
			BODY	E I GHT	CHG, S				TOTAL				TOTAL	
DATE	DAY TEMP	HUHIBITY	H XBAR	SD	XBAR	32	KARK	50	TO DATE	SÞ	XBAR	SD	to date	5 D
3/ 4/3	8 72+8-8		16 217,44 16 233,93	14.09	8.88	0.00	28.32	6.66	0.00 Ec.c.	8.88	6.08	0.00	9.00	09.0
11/ 4/3		34+ 1- 2		14.50	8.24	1.62		3.99	56.64	7.98	42.23	6.13		12.27
144 4/3				14.84	4.66	3.31	25.96	1.88	100.56	9,50	43.86			10.62
160 43	3 72+0-0		16 273,93 16 292,00	21.75	9.85	5.00	50.33	6.06		26.55	41:51	6.29		50.74 58.00
	11 71+1-8			19.19	7.63	3.56	29.74	2.99 5.44		24.88	42.86	5,48	*	65.26
		40+ 8- 2		19.23	7,37	1.67	31,50	2.67		24.46	43.27	5,84		90.90
		42+ 6- 2		10.50	7.05	1.58	30,67	2,05		28,46	44.95	6,83		91.72
		57+ 8- 1		18.07	4.84	4,00	30.61	4,58		29.03	42.03	9.34	772,13 10	
		43+ 8- 3		19.22	5.68	1.07	32.14	2.91		32,37	45.14	8,37	907.54 1	
		53+ 8- 1		20.81	3.91	1.51	31.17	2,97		37.06	45,73	10.28	998,99 13	
		54+ 8- 1		20.68	3.21	1.55	29.98	2.54		38,49	41.87	6.14	1007,34 19	
		-	10 30 41.00	20100	3121	1133	2	1,134					100.10-11	
	GROUP 3													
			BODY W		CHG. BO	DY HT.		FOOD CO	MSUMED TOTAL		١	HATER	CONSUMED TOTAL	
TATE	PHET YAC	HUHIDITY	H MBAB	50	XBAR	SD	RASK	sp	TO DATE	95	XBAR	SD	TO DATE	SD
7/ 4/3	0+0-0		16 213.76	9.07	8.00	8.08	8.88	8.00	0.00	0.88	0,00	0.00	8.88	0.00
		20+ 0- 1		17.35	6.57	6.24	24.81	4.88	49.63	8.17	38.33	3,65	74,67	
		34+ 1- 2 1			8.61	3.93	25.64	1.52	106.98	8.51	43.35	3.63	163.36	
		30+ 1- 2			8.94	1.29	27.75	1.45	184.86		42.03	3.66	289,45 3	
		42+ 2- 1 1			7.93	1.77	28.53	3,34		16.64	39.55	15.61	368.54	
		42+ 6- 2			7.25	1.62	27.84	1.84		10.20	41.45	4.88	451.44	
		48+ 8- 2		16.50	7.13	1.16	29.17	1.94	384.34		41.89	3,77	577.11 !	
		42+ 6- 2 !		16.65	6.21	1,43	29,38	5,49	443,10		42.89	3,47	68,589	
		57+ 0- 1		17.19	5,88	1.89	28.81	2.41		29,60	41.19	3.53	745,27	
		43+ 0- 3			3.65	3,23	28.10	4,83	595,03		40.02	8,53	805.33	
COZ 4/5	23 71+8-0	53+ 0- 1 1	16 366.15	20.85	4.15	2.77	29.72	2.79	હેવન, નહ	44.58	42,40	3.94	950,14	68.61
_		54+ 0- 1			3,79	1.04	28.84	1,81	701.31	46,79	41.87	4,28	1033.88	

TABLE A-2

	EXPERIMENT	t							-	
	GROUP 4									į
DATE	DAY TEMP	HUMIDITY	THREE YEOG GE RAEK H	CHG. BODY WT.	XBAR	1000 G	COMSUMED TOTAL TO DATE SI	HBAI	HATER SD	CONSUMED TOTAL TO DATE SD
7/ 4/3	9 B+0-0	0+ 0- 0 1	6 216,90 12,34	5.60 B.64	0.00	0.60	0.00 6.0		0.60	e.se e.se
3, 45	2 72+8-8	28+ 0- 1 1		6.75 6.84	25, 49	4,36	50.98 9,3			
11/ 4/3		34+ 1- 8 1		0,31 4,73	25.32	4,65	101.62 14.0			166.09 29.33
147 475	_	30+ 1- 2 1		8.95 1.10	27,71	2,15	104.76 10.1			
187 475			6 209,64 19,48	7.09 1.05	27.66	63.5	246.13 22.	_		
107 473		42+ 6- 2 1		0.12 1,29	20.91	8,23	297.95 26.3			478.94 63.00
21/ 4/3	14 P1+8-8	40+ 0- 2 1	4 325,95 20,30	6.69 1.20	20.75	2.29	384.19 32.1			
23/ 4/5	0-0+54 81	42+ 6- 2 1	6 338.79 21.54	6,48 1,53	29.82	3.30	443.82 37.	4 44,0	5 5,30	690,13 98.98
25/ 4/5	10 70+2-0	57+ 0- 1 1	6 352.23 22.72	6.74 1.77	29.19	2,67	500.19 42.0	n 43.0	4,95	777,84 102.33
287 4/5	21 71+0-0	43+ 0- 3 1	6 366.74 23.84	4,84 1,58	29,65	2,63	591.26 49.3	7 43.89	7 5.87	909 45 119.22
30/ 4/5	0-0+17 25	53+ 6- 1 1	6 374.33 24.50	3,75 1,32	30.98	3, 15	653.10 \$1.5	07 44,59	5 5,37	998,54 129,23
21 5/5	85 71+0-R	54+ 6- 1 1	6 382,39 24,22	4,13 2,20	28.36	2.23	710.90 55.5	9 44.1	4 6.12	1085,83 140,04
	GROUP S									
}						F000 C	ONSUNED		MATER	CONSUMED
STAG	DAY TEM	HUHIDITY	BODY WEIGHT H XBAR SD	CHG. BODY WT. XBAR SD	XBAR	50	TOTAL SE STAG OT	XBAI	\$ \$D	TOTAL TO DATE SD
l										
7/ 4/3	0 0+0-0	8+ 6+ 6 L	8 214.4P 12.58	6.66 6.86	0.00	87.8	0.00 0.0	0.00	05.0	0.88 8.88
3/ 4/5	2 72+0-0	28+ 6- 1 1	4 231.05 13.67	65.1 65.6	25.57	1.88	51.13 3.7	5 42.36	4.52	84.98 9.83
11/ 4/3	4 72+8-8	34+ 1- 2 1	6 247.33 14.19	8.14 1.75	26.02	2.13	103.18 7.0	9 42.13	13.19	168.85 30.24
147 475	7 72+0-1	30+ 1- 2 1	4 273.49 17.38	0.72 1.50	27.32	2.71	105.14 15.4	3 43,47	5,24	299.26 41.99
167 475	9 72+0-0	42+ 8- 1 1	6 290.45 19.87	0.48 1.02	20.20	2.94	241.54 20.5	43.6	4.92	396.51 50.38
107 475	11 71+1-0	42+ 6- 2 1	6 305.48 19.23	56.5 58.4	20.55	1.52	298,64 22.6	क वब, अ	4.59	475.31 56.74
21/ 4/5	14 71+8-8	40+ 6- 2 1	6 325.98 22.47	6.81 1.77	29.24	2,65	386.37 30.5	15 45.9	4 5.91	613.12 72,14
23/ 4/3	19 72+0-0	42+ 4- 2 1	6 339,37 24,12	6.73 1.49	29.50	3.36	445,37 34.9	9 45,83	4.19	704,65 79,35
25/ 4/5	0-5+07 01	57+ 8- 1 1	6 352.06 24.70	6.34 1.78	29,64	50	504,66 37.0	3 44,7	1 5.33	* .
287 475	5 21 71+0-0	43+ 0- 3 1	\$ 365.54 26.20	4.50 0.98	30.00	2,44	505,04 43,7	ા ના, કો	0 4.54	
30/ 4/3	8 23 71+0-8	53+ 0- 1 1	6 373.27 26.32	3.86 1.24	26.86	15,54	648.76 47.1	85 44,5	3,70	
27.373	25 71+8-0	54+ 0- 1 1	6 381.44 27.10	4.09 1.47	19,84	3,29	711.11 540	(3 45.1),	2 5.00	1107,60 110,36
1	GROUP 6									
DATE	DAY TEMP	HUMIDITY	BODY HEIGHT	CHG. BODY HT.	XBAR	FOOD	CONSUMED TOTAL TO DATE &	D XBA	HATER R SD	CONSUMED TOTAL TO DATE SD
							., ., .,			
71 41	5 8 8+0-6	0+ 0- 0 1	6 215.45 16.47	8.00 8.00	8.88	0.00	0.00 0.	0.0	0 0.08	66.6 66.6
97 47	5 2 72+8-0	28+ 6- 1 1	6 232.84 16,79	6.36 1.16	26.46	1.98	\$2.91 3.	97 44.8	5 4,66	85.78 9.21
11/45	5 4 72+0-0	34+ 1- 2 1	6 249.84 19.46	0.50 1.50	27.23	5.12	107.36 7.	99 48.6	s 6,29	8 106.94 20.89
140 40	1-0+57 7 c	38+ 1- 5 1	6 275.41 26.45	8.79 8.66	28,44	3.00	192.68 15.	73 46.8	\$ 5,50	327,49 36,17
167 47	9-8+57 6	42+ 2- L I	16.55 25.165 21	9.87 1.86	29.66	2.77	250.79 21.	96 47.1	1 5,73	421.69 46.56
107 47	5 11 71+1-8	42+ 6- 2 1	4 305.57 23.09	7.81 1.68	28.50	1.93	307.79 23.	69 47.3	8 5.99	516.01 57.43
21/ 4/	5 14 71+0-8	48+ 8- 2 1	19,75 65,658 8	7.91 1.91	30,69	3.38	399.86 33.	29 49.0	2 7,76	663.07 79.96
23/ 4/	5 16 72+0-0	42+ 6- 2 1	6 341.64 27.33	6.18 1.51	31.55	3,51	462,96 39,	57 48.4	6 8,56	750,49 95,67
1			6 352.96 29.97	5.66 2.94	30.23	4,78	573.41 48.	39 40.0	9 11.1-	4 850.17 114.77
J			6 366.47 32.98	4.50 1.73	32.21	2. 13	620,04 55,		4 9,70	4 008,67 142,47
1			6 374.81 34.03	4.17 1.52	31.62		693.20 62.			
57.57	5 25 71+0-0	34+ 8- 1 1	6 382,86 35,42	4.02 1.45	30.57	4,31	744,41 70.	93 45.0	9,43	1186,06 165,27

TABLE A-3

1	EXPER IMENT	F													
	GROUP 1														
									E000 60	MENMPA			HATER	CONSUMED	
				BODY WE		CHG. BO			FOOD CO	TOTAL				TOTAL	
DATE	DAY TEMP	HUMIDITY	н	XBAR	SD	XBAR	SD	XBAR	SD	TO DATE	SD	XBAR	SD	TO DATE	e sb
15/ 3/2	8 6+6-8	6+ 6- 6	16 12	27.24	0.65	6,68	6,68	9.88	0.00	0.00	6.08	0.60	6.66	6.68	86.0
14/ 5/5	2 72+1-1	65+ 5- Ş	16 15	52.89 1	12.78	12,43	1,66	18,75	1.52	37.49	3.84	24.98	2.53	49.97	5.07
16/ 5/5	4 72+1-8	56+ i- i	16 17	70.14	2.85	9.03	1.69	21.25	1.94	79.99	6.39	29,44	2.65	100.86	10.08
19/ 5/5	7 72+1-0	57+ 1- 1	16 19	96.42	5.63	8.76	1.41	22.39	2.68	147.13	12.30	29.25	2.88	196.62	10.33
21/5/5	9 73+0-8	58+ 6- 8	16 2	12.57	5.29	8.07	1.04	24.28	2.29	195.69	16.37	32,46	2.02	261.54	23.83
	11 74+6-1				6.98	8.98	1,79	24,59	2.27	244.87	20.52	39,28	4.43	340.11	31.83
	14 75+6-3				0.56	9.86	1.57	25.76	2.54	322.16	27.25	37.66	4,29	451.29	43.53
1															
	16 78+6-1				26,27	7,48	1.62	25.79	2.13	373.75	38.78	38.77	4.72	528.83	51.80
30/ 5/3	18 72+0-6	28+ 5- 0	16 5.	70.06 Z	26.40	9.11	1.03	26.11	2.00	425.58	34.34	40.45	3.78	609.73	58.40
2/ 6/5	21 72+1-0	61+ 1- 8	15 3	11.38 2	22.80	7.51	1.61	27.77	2.10	509.30	38.77	38.80	4.34	727.54	68.37
4 6/3	23 71+0-1	67+ 1- 8	15 32	27.02 2	26.55	7.02	2.56	26.98	3.42	567.33	41.71	40.98	4.41	800.34	75.24
6/ 6/3	25 60+2-0	68+ 8- 8	16 33	38.44 2	24.57	5.71	1.81	29.48	2.45	624.12	44,80	41.48	4.51	892.29	32,82
9/ 5/5	28 71+0-8	69+ 8- 0	16 35	57.97 2	25.58	6.51	0.97	27.89	1.96	707.6 0	49.64	36.96	4.17	1003.18	92,60
															
1	GROUP 2														
ł			1	BODY NE	1GHT	CHG. BO	DDY WT.		FOOD C	OHSUMED TOTAL			WITER	CONSUMED	
DATE	DAY TEMP	HUMIDITY	н `	XBAK	SĎ	XBAR	SD	XBAR	SD	TO DATE	SD	XBAR	SD	TO DAT	E SD
ŀ															
12/ 5/5	8 8+8-8	8+ 8- 0	16 12	29.65	8.94	0.00	8.86	0.00	0.00	9.00	6.00	0.00	8.80	6.88	1.9.6
14/ 5/5	2 72+1-1	62+ 2- 5	15 1	48.28	9.37	9.32	3.68	19.18	1.85	36.35	37	25.07	3.45	50.13	6.66
19/ 5/5	4 72+1-8	56+ 1- 1	15 10	66.44	11.22	9.00	2.86	21.35	1.60	79.05.	6.31	30.63	4.28	111.40	14.12
19/ 5/5	7 72+1-8	57+ 1- 1	15 1	91.72	12.6.	8.43	2.43	23.88	1.75	148.38	18.84	29.81	3.57	200.83	23.98
21/ 5/5	9 73+8-6	50+ 8- 0	15 2	89.21	13.64	8.24	2.56	24.82	2.06	197.95	13.47	32.48	3.50	265. 79	30.45
j	11 74+8-1				14.69	8.17	2.76	24.89	2.10	247.72	17.11	40.15	4.86	346.09	38.78
	14 75+6-3				16.12	9.24	2.77	25.70	2.08	324.81	22.95	37.97	4.52	459.09	51.30
1						7.63	2.34	26.26	2.10	377.33		38.78	4.23	537.55	58.67
1	16 78+0-1			*	16.57					*			_	*	
1	18 72+6-8			-	17.97	7.43	2.50	27.68	3.12	432,69	20.71	43.41	5.51	624.37	69.95
2/ 6/5	21 72+1-0	61+ 1- 0	14 3	*	16.81	7.22	3.09	28.21	1.92	517.34	33.61	39.68	6.21	745.17	83.16
4/ 6/5	23 71+0 -1	62+ 1- 0	15 3	119.69	20.99	9.55	4.38	29.41	2.59	576.16 *	38.12	41.27	4.47	825.71 *	91.04
6/ 6/5	25 66+2-8	60+ 8- 6	15 3	30.33	22.97	5.32	1.39	28.26	1.73	632.68	40.50	41.84	3.92	987.79	98,04
9/ 6/5	28 71+0-0	60+ 6- 6	15 3	50.70	23.55	6.79	2.38	28.39	2.70	717.86	48.12	36.77	5.28	1010.09	111.71
	GROUP 3														
l	41001	•							FOOD C	ONSUMED			HOTER	CONSUMED	
}				BODY HE			ODY MT.	XBAR	SD	TOTAL TO DATE	SD	XBAR	SD	TOTAL TO DAT	E SD
DATE	DRY TEMP	HUMIDITY	н	XBAR	SD	XBAR	SD	ABHA	20	IO DHIE	עפ	APHE	30	IO DAI	F 2n
1						-									
12/ 5/5		8+ 8- 8			12.23	8.00	0.00	8.88	0.00	0.66	0.00	8.00			6.00
14/ 5/5	2 72-1-1	62+ 5- 5	lê i	42.90	12.37	6.97	1.55	16.51	1.45	33.61	8.69	22.67			6.82
16/ 5/3	4 72+1-6	56+ 1- 1	16 1	159.89	12.76	8.10	1.84	19.")	2.00	72.59	6.49	20.01	2.20	102 95	9.27
19/ 5/9	7 72+1-1	57+ 1- i	16 1	164.63	16.13	8.51	1.48	21.39	2.34	136.78	12.05	29.82	57	192.48	14.82
21/ 5/5	9 73+8-1	58+ 6- 8	15 2	1 €.895	17.26	8.14	8.84	23.82	3.11	184.41	18.41	32.00		256.24	18.82
23/ 5/5	11 74+8-	63+ 9- 3	16 2	217.14	18.66	8.12	1.35	24.28	3.76	232.96	25.43	30.59	6	333.43	25.48
26/ 5/5	14 75+6-1	70+18-18	18 2	243,45	21.62	8.77	1.30	24.59	33	306.73	33.72	37.16	4	444.91	36.42
1	16 78+8-					6.89	1.32	25.13		356.99	39.36	38.15			43.94
]	19 72+8-6					6.97	1.61	25.98		400.95	46.23	41.49			51.85
1										469.09		39.03			63,06
•	21 72+1-1					7.60	1.39	26.71							
ł	3 23 71+0-						1.94	26.86	3.06	542.81		37.60			
1	3 25 66+2-0						1.78	26.33		595.48	64.49	40.51			83,44
9/ 6/5	28 71+0-	0 + 0 - 0	16 3	338.62	34,99	7.01	1,95	27.46	3.30	677.08	72,49	37.40	5.42	989.73	97,51
•															

TABLE A-4

		TWD	JE A-	4				
EXPERIMENT P								
GROUP 4								
				rocin co	UNSUMED		HATER	CONSUMED
DATE DAY TEMP HUMIDITY H	BODY WEIGHT	CHG. BODY WT. XBAR SD	XBAR	Sb	TOTAL	en voon		TOTAL
ante pri late nontatat r	CERT 35	VDUK 30	0846	30	TO DATE	SD XBAR	S.D.	TO DATE SD
12/ 5/5 0 0+0-0 0+ 0- 0 10	121 01 12 40	B 22 B 22						
12/ 5/5 8 8+8-8 8+ 8- 8 16 14/ 5/5 2 78+1-1 62+ 2- 2 16		5.16 1.53	6.88 16.35	0.00		.00 0.00	0.00	0.00 0.00
					•=		5.56	45.11 4.51
16/ 5/5 4 72+1-0 56+ 1- 1 16		8.5. 1.26	19.81	1.57		.75 20.78	1.98	102.68 0.05
	182.19 15.46	7.95 1.16	21.53	1.69		.10 29.28	2.67	190.26 15.58
21/ 5/5 9 73+6-0 58+ 6- 8 16		7,93 1,34	23.80	1.69		.65 32.33	3,52	254.92 21.92
23/ 5/5 11 74+6-1 63+ 0- 3 16		7.12 1.56	23.62	2.00		.52 38.41	4.42	331.74 29.52
26/ 5/5 14 75+6-3 70+18-18 16		6.59 1.39	24.27	2.23		.14 37.56	4.93	444,41 43,06
28/ 5/5 16 78+0-1 64+ 4- 4 16		6.93 1.24	24.46	2.14		.03 36.2;	5.85	520.03 53.76
38/ 5/5 18 72+8-8 58+ 2- 8 16		7.25 1.27	25.02	1.98		.32 41.17	5.33	607.16 63 67
8/ 6/9 21 72+1-0 41+ 1- 0 16		7.09 1.01	25,56	2.71		.91 37.79	5,35	716.53 75.65
4/ 6/5 23 71+8-1 62+ 1- 0 16 6/ 6/5 25 66+2-0 60+ 0- 0 16		8.10 1.65	26.33	2,37		.60 40.00	5.43	790.31 03.71
		5.20 1.40	26.57	1.91		.00 41.02	5,14	973.06 91.54
9/ 6/5 28 71+0-0 50+ 0- 9 16	336.71 25.28	6.78 0.96	26.78	1.03	664,69 44	.73 37.17	4,57	983,86 103,95
GROUP 5								
	BANK DELCHE	CHC BANK IF	, 1	FOOD CO	ONSUMED		MATER	CONSTRUED
DATE DAY TEMP HUMIDITY H	BODY WEIGHT Abar SD	CHG. BODY WT. XBAR SD	XBAR	SD	TOTAL TO DATE	SD XBAR	SD	total To date SD
•								
127 575 8 8+8-8 8+ 8- 8 1G	132.58 11.38	0.00 0.00	0.00	0.00	0.00 0	.00 0.00	0.00	0.00 0.00
14/ 5/5 2 72+1-1 62+ 2- 2 16	146.89 11.75	6.99 2.59	17.07	1.15	34,14 2	.98 22.54	1.50	45.06 3.01
18/ 5/3 4 72+1-8 56+ 1- 1 15	163.86 12.22	8.49 1.12	20.10	1,39	74.37 4	.27 28.09	1.92	เถา.26 6.ค.เ
19/ 5/5 7 72+1-0 57+ 1- 1 16	100.34 14.23	8.16 1.15	21.34	1.45	139,38 8	.07 28.15	1.91	185.72 11.19
21/ 5/5 9 73+0-0 50+ 0- 0 16	203.86 14.46	7.76 1.31	53.65	2,82	185.63 11	.25 შთ. მშ	2.24	247.38 14.67
23/ 5/5 11 74+0-1 63+ 0- 3 16	219.10 15.92	7.62 1.46	22.85	à. 15	231.33 14	.00 36.70	3.65	320.79 21.07
26/ 5/5 14 75+6-3 78+10-18 16	245.74 18.45	0.00 1.57	24.02	2.61	303,39 20	.24 35.65	3.58	437.73 30.06
28/ 5/5 16 78+0-1 64+ 4- 4 16	257.33 19.65	5.70 1.65	24.01	2.15	351,41 24	.10 35.89	3,85	490.48 37.93
38/ 5/5 IR 72+8-8 58+ 2- 8 16	85.03 \$7.155	7.00 1.05	24, 42	> . 16	400,35 20	.54 30.04	3.73	575.56 44,79
37 675 21 72+1-8 61+ 1- 8 16	291.54 20.04	6.07 1.11	>5. '·E	2,49	475,09 - 34	.49 35.66	2.58	601.46 (527.13)
4/ 6/5 23 71+0-1 62+ 1- 0 16	306.24 21.98	7,35 1,65	28,57	2.11	527 : 13 - 38	.30 33,20	2.08	749.56 \$7.31
67 675 25 66+2+ 8 60+ 8 - 8 16	315.08 80.87	4.77 1.36	25.22	2.01	577,57 42	.00 25,43	5.37	820.47 63.74
9/ 6/5 28 71+0-0 60+ 0- 0 16	332.43 21.85	5.50 1.35	25.40	2.01	653.77 47	.07 32.30	3.04	917.32 69.0
GROUP 6								
			,	ECHOD CO	ONSUMED		WATER	CONSUMED
N YTIDIMUH 9M2T YAU STAD	BODY WEIGHT XBAR SD	CHG. BODY WT.	XBAR .	SD	TOTAL	SD XBAR	SD	TOTAL TO DATE SD
			. 4					IC DAIL SO
12 - 5 - 5 8 8 - 8 - 8 6 8 8 16	129.84 12.61	8.80 8.80	6.66	0.00	9.00 0	.00 0.00	0.00	ย.อง ช .คง
144 545 . 2 72+1-1 52+ 2- 2 14	•	7.95 3.89	17.51	1.19		.32 23.66	3.93	47.31 7.32
16/ 5/5 4 72+1-8 56+ 1- 1 14		9.30 3.74	20.97	1.54		.75 29.05	3.69	105.42 13.72
19-5-5 7 72+1-0 57+ 1- 1 14	Me.	0.30 3.43	22.58	1.63	*	.92 29.53	3.71	194.02 23.00
21/ 5/5 9 73+0-0 58+ 8- 8 14	*	9.43 3.51	23.02	1.66	192.35 10		3.58	258.14 29.43
23/ 5/5 11 74+8-1 63+ 8- 3 14		7.86 3.39	24.53	1.71	241.41 12		5.20	335.61 38.39
26/ 3/5 14 75+6-3 70+10-10 14	*	9.30 3.95	25.91	2.61	319.13 19		5.01	449,46 51,62
20/ 5/5 16 78+8-1 64+ 4- 4 14	*	7.56 3.47	26.10	2.59	371,32 23		5.01	527,00 60.20
38/ 5/5 18 72+8-8 50+ 2- 8 13	*	7.00 3.42	26.61	3.35	421,04 29		C.45	611,70 70,56
27 6 5 21 72+1-8 61+ 1- 8 14	*	8.01 3.50	29,68	2.67	509.18 36		5.45	757.94 84.00
4/ 6/5 23 71+0-1 G2+ 1- 0 14	*	7.54 3.75	20.50	2.67	566.17 40			*
6× 6×5 25 66+2-0 611+ 0- 0 14	:r	5.31 2.75	27.50	2.56	621.17 41		5.97	70,00 20,000
9/ 6/5 28 71+8-8 68+ 0- 8 14	*	0.86 2.87			706,15 51		6.26	892,34 99,12
2. 47.5 50 1140-0 604 0- 0 14	69.36	0.41 6.87	28.33	2,54	10,12 21	.20 37.69	6,47	1005.40 114.63

TABLE A-5

	XPERIMENT	c									•		
DITE	GROUP I	HUMIDITS H	BODY W	DE I GHT SD	CHG. BO	ODY HT.	XBHR	FOOD C	OHSUNED TOTAL TO PATE	sp	×BAR	MATER SD	CONSUMED TOTAL TO PATE SD
23/1 6/3	0 0+0-0	5+ 6- C 48	196.67	10.40	0.00	0.00	0.00	8.00	0.00	0.00	ø. 9 0	0.68	0.80 2.80
25/ 6/5	2 73+0-0	63+ 0- 1 48	213.78	11.50	8.86	1.20	23.53	1.76	47.06	3.53	33,44	3.65	66.88 7.30
27/ 6/5	4 72+0-0	62+ 0- 1 48	230.05	80.51	8.14	1,20	23.07	1.85	94.60	6.98	35.21	3.63	137.30 14.52
307 675	7 72+1-0	631 0- 1 48	255.68	14,85	8.54	1.05	34.86	2.04	169.39	12.83	34.84	3.82	241.82 25.44
21 715	9 76+1-0	62+ 0- 0 40	273.66	15.58	9.00	1,49	26.60	2.03	222.60	16.59	37.04	3.58	315.90, 31.99
3/ 7/5	18 72+1-1	62+ 2- 0 48	278.62	16.37	4.95	2,34	25.83	2.15	248.47	13,45	49.88	4.45	355,98 25,56
77.775	14 71+1-6	02+ 0+ 0 48	311.20	18,05	9.16	1,17	27.27	2.47	357.56	27.41	55,56	3.97	499.59 49.92
91 775	16 72+1-0	63+ 1- 8 48	327.29	19.68	8.00	1.45	27.80	2.93	413.35	32.49	40.34	5.33	561,48 59,68
11/ 7/5	18 72+8-1	62+ 9 - 0 48	336.41	21.55	4,50	1.63	27.70	3,90	468.76	36.01	41.97	5,87	665,41 69,32
141 7/5	21 72+0-N	63+ 1- 1 48	355.33	23.21	6.31	1.26	27,98	3.01	552,60	45.89	41,45	6.27	787,36 85,13
167 775	23 73+1-0	63+ 1- 8 49	357,55	24,77	6.11	1.57	29.03	3.00	610.74	51,04	320,111	5,36	805.39 95.12
187 7/5	25 74+0-1	63+ 0+ 0 48	375.80	24,69	4.17	1.61	27,44	2,43	665.61	55,63	38,16	5,70	941.70 104.79
21/ 7/5	29 74+0-0	5 4+ 9- 8 49	gọn, nạ	27.31	5.00	1, 49	08,34	2.63	750.63	61.75	קר, ייִי	5.00	1057.51 118.90
	GROUP 2												
DATE	DAY TEMP	HUMIDITY N		TETGHT GB	Сни. В ЖВИВ	ODY WT.	KBAR	FOOD C	CONSUMED TOTAL TO DATE	Sb	MBAR	HOTER	CONSUMED TOTAL TO DATE SD
23/ 6/5	B 0+8-8	0+ 0- 0 48	194,55	9.48	6.00	0.00	0 00	0 .00	n.00	0.00	u.00	ი.იღ	າ.ຄວຸ ວ. ວວ
25 / 6/5	2 73+8-0	63+ 6- 1 47	211.13	11.57	6.29	1.35	32.72	1.93	45.44	3.79	32.73	3.79	65.16 7.20
27/ 5/5	4 72+0-6	62+ 0 - 1 48	226.75	12.35	7.81	1.25	23,41	2,19	92.26	7,69	34,20	3.85	133,56 14,31
307 675	7 73+1-6	63+ 0- 1 48	251,94	13.86	6.40	1.23	24.26	2.31	165.03	14,22	\$3.79	3,94	234,94 25,48
21.713	9 70+1-0	1 62+ 0- 0 48	269.63	15.59	8.84	1.94	26.35	2.49	217.72	18,59	\$6.64	4.61	707.03 33.72
3/ 7/5	18 72+1-1	62+ 2- 6 48	273,43	15.94	3.00	2.75	25,83	3.44	242.80	20.50	35.01	5.13	346.04 37.86
71 7/5	14 71+1-0	0 62+ 0- 0 48	3)5,94	18.59	9.13	1.09	26.87	2.42	750.20	29,46	35.23	4,58	405.90 55.07
31.575	16 72+1-6	63+ 1- 8 48	322.36	20.07	8.21	1.75	27.50	2.50	405.40	34,50	40,40	5.50	567,03 65,43
11/ 7/5	18 72+0-1	62+ 0- 9 46	331,27	21.17	4,70	1,53	25 , 42	2.40	459,24	39,41	41.05	5.91	658,43 75,64
1 344 7 5	91 7140-0			22 .7						44,54	20,00	5.91	ព ១,52 ១០,33
	E1 7270-0	9 63+ 1- 1 40°	343.80	22.42	5.53	1.45	27.41	2.40	4.4	41.4.19.4			
167.775		9 63+ 1- 1 48 9 63+ 1- 0 48		24,33	2,59	2.00	27,41	2,40 2,94	599,30	48.97	7K,00	5,47	845,51 99,54
i	23 73+1-6		390.73								-		

TABLE A-6

								<u> </u>	بير سيون جينور					
1	EXPERIMENT	' H												
ł	GROUP 1													
1								FOOD CO	ONSUMED			MATER (CONSUMED	
DATE	DAY TEMP	HUMIDITY	H XBAR	4 icht Su	CHG. B	ODY WT.	#BER	SD	TOTAL TO DATE	3 D	XEAR	SD	TOTAL TO DATE	SD
	J, 15.4			••	non a	••	CHOTTE	35	to pate	40			10 0	"
Í.,														[
3 0/3	0 0+0-0	5+ Q- Q	16 197.21	9.76	6.00	8.50	0.00	b.00	6.60	6.80	6.86	6.88	6.00	9.00
6/ B/S	1 73+0-0	44+ 8- 8	16 285.85	18.45	7.84	2.97	23.59	2.35	23.50	2.35	34.29	3.56	34.29 3	3.56
8/ 8/5	3 71+1-0	63+ 6- 1	16 220.42	13.15	7.68	2.23	24.33	2.33	72.24	6.54	33.88	4.78	102.35 18	2.49
11/ 8/5	6 72+8-8	65+ 8- 8	6 243.53	15.35	7.78	1.58	25.28	2.68	148.89	14,23	32.98	4.54	268.74 25	5,57
132 9/5	6 73+0-0	64+ 0- 8	6 262.65	10.05	9.56	1.92	25.63	2.88	199.36	19.61	34,33	5.33	269.39 35	5.47
15/ 8/3	10 74+0-6	67+ 6- 1	16 276.22	19.65	6.78	1.17	25.54	2.60	250.44	24,64	35.97	4.83	341.33 44	4.87
18/ 8/7	13 74+0-2	68+ 1- 2 :	16 300.40	21.74	8.86	1,39	27.05	3.02	331.59	33.41	35.40	5.05	447.52 61	1.75
80% 6%	15 71+8-6	66+ 4- 0	16 317.34	22.52	8.47	1.68	27.91	2.95	307.41	39.12	35.35	5.65	518.22 72	2,33
22/ 8/3	17 72+8-8	69+ 0- 1	15 329.51	22.52	5.58	1.35	27.13	2.73	441.67	43.81	37.03	5.49	592.30 83	2,51
l		71+ 8- 1		25.29	6.93	1,67	20.54	2.60	527.29	51.81	30,40	5.94	701.50 100	0.03
1		67+ 0- 0		25.32					583,92			6,14	774,02 111	
					6.60	1.39	28.32	2.58		56.64	36.26			
ĺ		66+ 0- 0		25.86	4.88	1.33	27.91	2.17	639.74	60.25	37.46	5,94	948.94 123	1
2/ 9/	3 28 0+0-0	0+ 6- 6	16 393.69	26.62	5.47	1.89	28.87	2,46	755.23	69.01	36.67	5.17	995,62 143	3.37
	GROUP 2	!												
								FOOD C	ONSUMED			WATER	CONSUMED	ì
DATE	DAY TEMP	HUMIDITY	BODY N	HEIGHT SD	CHG. E	ODY HT.	XBAR	SD	TOTAL TO DATE	: SD	XBAR	SD	TOTAL	SD
, , , , , , , , , , , , , , , , , , ,					~~n.	35	7.5			-	Carrie	35	10 0	,
3/ 8/			16 188.16	13,94	0.66	6.66	8.66	8.08	0.68	6.88	0.03	0.65		6.00
6/ 8/			16 197.17	14,48	9.07	2.69	23.06	2.89	23.06	2.89	33.76	4.45	-	4.45
9/ 8/	5 3 71+1-6	63+ 8- 1	16 211.74	16.29	7.20	1.29	23.89	1.89	70.81	5.67	33.04	4.27	101.44 1	2.57
1:/ 8/	5 6 72+0-6	65+ 8- 8	16 237.37	18.26	8.54	1.24	25.19	1.78	146.33	19.67	32.59	4.31	199.22 2	5.19
13/ 8/	5 8 73+8-6	64+ 6- 6	16 255.64	20.44	9.14	1.65	25.67	2.17	197.68	14.35	35.96	4.79	265.13 3	4.09
15/ 8/	5 10 74+0-6	67+ 6- 1	16 268.87	21,01	6.61	1.63	25.70	2.13	249.08	19.11	35.10	4.92	335.32 4	3.57
18/ 0/	5 13 74+0-2	66+ 1- 2	16 29; .52	23.16	7.69	1.31	26.86	2.25	329.64	24.69	34.50	4.82	439.84 5	7.32
20/ 0/	5 15 /1+8-8	86+ 8- 8	16 389.84	25.04	8.66	1.40	27.83	2.50	385.31	28.74	34.39	4.69	507.63 60	6,61
887 67	5 17 72+0-6	69+ 6- 1	16 324.11	25.87	7.14	1.48	27.35	3.38	440.61	33.77	36.81	5.81	579.64 70	6,04
25/ 8/	5 20 72+0-8	71+0-1	16 343.96	26.74	6.61	1.09	29.06	3.31	527.20	41.70	75.23	4.93	685,34 89	9.73
27/8/	5 22 72+0-1	67+ 0- 8	16 359.01	28.11	7.52	1.35	28.53	2.25	584.36	45.68	34.19	4.67	757,73 0	R. 13
29 - 8-	5 24 7 8+ 1-8	66+ 8- 8	16 368.44	28.94	4.72	2.86	28.19	2.40	640.74	49.50	35.67	4.92	805.06 100	7,56
1		0+0-0			5.90	1.30	29,19	2.45	757.49	58.15	35.84	4,70	908,43 12	
													+	
ĺ	GROUP 3	1												
i .								FOOD C	ONSUMED		1	HATER	CONSUMED	
DATE	DAY TEMP	HUMIDITY	N XBAR	Height Sd	CHG. N	ODY WT. SD	KPAR	SÞ	TOTAL TO DATE	SD	XBAR	SD	total 10 da te	SD
]														
5/ 8/	3 0 0+0-0	0+ 0- 0	16 192.44	9.17	0.00	0.00	0.66	6.88	0.00	8.60	5.00	0.00	8.80	0.00
i		64+ 0- 5		11.64	7.77	2.91	23.04	2.89	23.04	2.09	34.18	5.15		5.15
ı		63+ 8- 1			8.19	1.51	24.69	1.65	72.43	5.09	34.57	4.44	103.31 13	
j		65+ 8- 8			9.12	1,35	25.72	1.64	149.58	9.65	34,34	3.88	206.34 24	
1														
ł		64+ 8- 6			8.67	.,71	26.22	1.95	202.03		35.68	4.27	277.71 32	
1		67+ 0- 1			7.38	1.05	25.93		253.89		36.35	3.68	350.41 38	
ł .		88+ 1- 2			8.63	1.23	27.90	2.29	337.50		36.31	4.28	459.34 50	
28/ 8/	5 15 71+0-8	664 0- 6	16 320.33	23.70	9.01	2.17	28.19	2.46	393.97	25,90	36.47	4,45	532.28 59	4.11
25/ 8/	5 17 72+8-8	89+ 8- 1	16 333.37	24.39	6.52	1.46	20.53	2.28	451.02	30.17	39.79	4.78	611.87 6.	_.
25/ 8/	5 20 72+0-0	71+ 0- 1	16 353.78	27.05	6.60	1.49	29.45	2.70	539.38	37,76	37.10	4.42	723,18 79	9,47
27/ 8/	5 22 72+8-1	67+ 0- 0	16 569,41	29.37	7.62	2,03	29.32	2.83	598.01	42.41	37.27	4.54	797,71 89	ន.ព្រះ
29/ 8/	5 24 70+1-0	66+ 0- 8	15 377.27	31.52	3,93	1,96	28.76	2.20	655.53	46.16	39,37	5.40	875,69 91	7.50
2/ 9/	5 28 8+0-0	0+0-0	16 398.50	34.21	5,31	1.56	29.11	2.73	771.96	35.17	37.92	5.75	1026,60,415	5, 45

22 09 3 0 730-0 64+ 0- 0 16 252-03 15-06 0.51 1.30 24-03 1.55 192-16 13-33 2.90 3.37 250-35 25-43 20 09 3 10 74+0-0 67+ 0- 1 16 264-15 15-39 5.51 1.50 24-05 1.67 241-46 16-29 73-26 3.31 324-74 31-64 16-29 17-74 18-06 67+ 0- 1 16 330-39 19-74 18-06 25-22 1.04 31-20	GROUP DATE DAY TEM? 3/ 8/3 8 9+8- 4/ 8/3 1 73+8- 8/ 8/3 3 71+1- 11/ 8/3 6 72+8- 13/ 8/3 10 74+9- 13/ 8/3 17 74+9- 20/ 8/3 17 72+8- 20/ 8/3 17 72+8- 20/ 8/3 17 72+8- 20/ 8/3 27 72+9- 20/ 8/3 27 72+9- 20/ 8/3 17 73+8- 8/ 8/3 3 71+1- 11/ 8/5 6 72+9- 13/ 8/5 10 74+8- 13/ 8/5 10 74+8- 22/ 8/3 17 72+9- 23/ 8/3 24 79+1- 24/ 8/3 24 79+1- 25/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 27 72+9- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27	4												
SECURY 4 STATE DRY TEST NUMBERS SO THE LIGHT NAME SO THE SO TOWN TOWN TOWN TOWN THE SO THE SO TOWN TOWN THE SO TOWN TOWN THE SO TOWN THE	GROUP DATE DAY TEM? 3/ 8/3 8 9+8- 4/ 8/3 1 73+8- 8/ 8/3 3 71+1- 11/ 8/3 6 72+8- 13/ 8/3 10 74+9- 13/ 8/3 17 74+9- 20/ 8/3 17 72+8- 20/ 8/3 17 72+8- 20/ 8/3 17 72+8- 20/ 8/3 27 72+9- 20/ 8/3 27 72+9- 20/ 8/3 17 73+8- 8/ 8/3 3 71+1- 11/ 8/5 6 72+9- 13/ 8/5 10 74+8- 13/ 8/5 10 74+8- 22/ 8/3 17 72+9- 23/ 8/3 24 79+1- 24/ 8/3 24 79+1- 25/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 24 79+1- 27/ 8/3 27 72+9- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27/ 8/3 27 72- 27	4												
24	DATE DAY TEM? 3/ 8/3 8 8+8- 4/ 8/3 1 73+8- 8/ 8/3 3 71+1- 11/ 8/5 6 72+8- 13/ 8/5 9 73+8- 15/ 8/3 10 74+9- 16/ 8/3 17 72+8- 20/ 8/3 17 72+8- 20/ 8/3 17 72+8- 20/ 8/3 24 70+1- 2/ 9/3 28 8+9- DATE DAY TEMP 5/ 8/3 1 73+8- 8/ 8/3 3 71+1- 11/ 8/5 6 72+8- 13/ 8/5 10 74+8- 13/ 8/3 17 72+8- 22/ 8/3 17 72+8- 22/ 8/3 17 72+8- 22/ 8/3 24 70+1- 22/ 8/3 24 70+1- 22/ 8/3 24 70+1- 22/ 8/3 24 70+1- 22/ 8/3 24 70+1- 23/ 8/3 24 70+1- 24/ 8/3 27 72+8- 25/ 8/3 24 70+1- 27/ 8/3 23 8+8- GROUP *ATE DAY TEM 5/ 8/3 24 70+1- 27/ 8/3 27 72+0- 27/ 8									•				
	3/ 8/3 8 5+8- 4/ 8/3 1 73+8- 8/ 8/3 3 71+1- 11/ 8/5 6 72+8- 13/ 8/5 9 73+8- 15/ 8/3 18 74+9- 16/ 8/3 17 74+8- 20/ 8/3 17 72+8- 27/ 8/5 22 72+8- 27/ 8/5 24 70+1- 2/ 9/5 28 8+9- GROUP DATE DAY TEMP 5/ 8/3 1 73+8- 8/ 8/3 1 73+8- 11/ 8/5 6 72+8- 12/ 8/3 13 74+8- 22/ 8/3 15 71+9- 22/ 8/3 15 71+9- 22/ 8/3 15 71+9- 22/ 8/3 26 72+0- 22/ 8/3 26 72+0- 27/ 8/3 26 72+0- 27/ 8/3 26 72+0- 27/ 8/3 27 72-0- 27/ 8/3 27 72-0- 27/ 8/3 27 72-0-								E000 C	MOUNT			ATER (ONGLIMED
27 07 3 0 190-0 0 10 1 1 1300 33 11.30 0.00 0.00 0.00	3/ 8/3 8 5+8- 4/ 8/3 1 73+8- 8/ 8/3 3 71+1- 11/ 8/5 6 72+8- 13/ 8/5 9 73+8- 15/ 8/3 18 74+9- 16/ 8/3 17 74+8- 20/ 8/3 17 72+8- 27/ 8/5 22 72+8- 27/ 8/5 24 70+1- 2/ 9/5 28 8+9- GROUP DATE DAY TEMP 5/ 8/3 1 73+8- 8/ 8/3 1 73+8- 11/ 8/5 6 72+8- 12/ 8/3 13 74+8- 22/ 8/3 15 71+9- 22/ 8/3 15 71+9- 22/ 8/3 15 71+9- 22/ 8/3 26 72+0- 22/ 8/3 26 72+0- 27/ 8/3 26 72+0- 27/ 8/3 26 72+0- 27/ 8/3 27 72-0- 27/ 8/3 27 72-0- 27/ 8/3 27 72-0-							Unon		TOTHL	**			TOTAL
	6/ 8/3 73+8- 8/8/3 71+1- 11/ 9/5 6 72+8- 13/ 8/5 8 73+8- 13/ 8/5 8 73+8- 13/ 8/5 13 74+8- 18/ 8/5 13 74+8- 20/ 8/5 15 71+6- 22/ 8/5 24 70+1- 22/ 8/5 24 70+1- 23/ 8/5 6 72+8- 24 70+1- 25/ 8/5 6 72+8- 26/ 8/5 7 72+8- 27/ 8/5 27 72+8- 28/ 8/5 7 72+8- 28/ 8/5 17 72+8- 28/ 8/5 17 72+8- 28/ 8/5 17 72+8- 28/ 8/5 17 72+8- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 21/ 8/5 27 72+0- 2	7 HUMIDIT	4 14	XBAR	50	XBHK	50	XBHK	50	TO DATE	50	ABHR	Þν	IO DATE OF
	6/ 8/3 73+8- 8/8/3 71+1- 11/ 9/5 6 72+8- 13/ 8/5 8 73+8- 13/ 8/5 8 73+8- 13/ 8/5 13 74+8- 18/ 8/5 13 74+8- 20/ 8/5 15 71+6- 22/ 8/5 24 70+1- 22/ 8/5 24 70+1- 23/ 8/5 6 72+8- 24 70+1- 25/ 8/5 6 72+8- 26/ 8/5 7 72+8- 27/ 8/5 27 72+8- 28/ 8/5 7 72+8- 28/ 8/5 17 72+8- 28/ 8/5 17 72+8- 28/ 8/5 17 72+8- 28/ 8/5 17 72+8- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 29/ 8/5 24 70+1- 21/ 8/5 27 72+0- 2													
87 69-3 5 71+1-6 63-6 - 1 16 2(e)-63 12-67 7-14 1.02 23-51 1.09 60-90 5.73 32-45 3.16 56-46 9.08 11-6 05 6 72+0-6 65-6 - 6 16 235-61 14-39 6.33 1.03 24-53 1.75 142-49 16-62 31-59 3.49 132-30 18-30 25-63 32-65 73+0-6 64-8 - 6 16 225-63 15-66 6.51 1.38 24-63 1.59 18-16 132-33 31-93 3.39 3.39 3.39 32-39 32-50 32-65 73-65-6 16 225-63 15-66 6.51 1.38 24-65 1.67 241-46 16-29 32-60 3.31 32-47.4 31-64 32-65 12-66	6 / 6 / 3 3 7 1 1 1 1 1 1 1 1 1	1-8 8+ 8-	6 16	188.35	11.36	8.88	0.09	0.00	8.98	0.08	0.00	9.96		
	11/ 8/5 6 72+0- 13/ 8/3 8 73+8- 13/ 8/3 18 74+0- 13/ 8/3 18 74+0- 20/ 8/3 13 71+0- 20/ 8/3 17 72+0- 20/ 8/3 17 72+0- 20/ 8/3 22 72+0- 20/ 8/3 24 70+1- 20/ 8/3 3 71+1- 20/ 8/3 3 71+1- 20/ 8/3 3 71+1- 20/ 8/3 13 74+0- 20/ 8/3 13 74+0- 20/ 8/3 24 70+1- 20/ 8/3 24	1-8 64+ 8-	8 16	196.34	11.47	7.99	2.42	21.00	1.88	21.88	1.60	31.51	3.06	
32 e/3	13 / 8/3 8 73+8- 13 / 8/3 18 74+8- 13 / 8/3 18 74+8- 18 / 8/3 13 74+8- 20 / 8/3 13 71+8- 22 / 8/3 17 72+8- 27 / 8/5 22 72+9- 27 / 8/5 24 70+1- 27 / 8/5 28 8+8- GROUP DATE DAY TEMP 5 / 8/3 1 73+8- 8 / 8/3 3 71+1- 11 / 8/5 6 72+9- 13 / 8/5 13 74+8- 29 / 8/3 13 74+8- 29 / 8/3 13 74+8- 29 / 8/3 13 74+8- 29 / 8/3 24 72+0- 27 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 21 / 8/3 24 78+1- 21 / 8/3 24 78+1- 21 / 8/3 24 78+1- 21 / 8/3 24 78+1- 21 / 8/3 24 78+1- 21 / 8/3 24 78+1- 21 / 8/3 24 78+1- 21 / 8/3 24 78+1- 21 / 8/3 24 78+1- 22 / 8/3 24 78+1- 24 / 8/3 24 78+1- 27 / 8/3 24 78+1- 28 / 8/3 24 78+1- 29 / 8/3 24 78+1- 29 / 8/3 24 78+1- 20 / 8/3 24 78	-8 63+ 8-	1 16	2 (0.63	12.67	7.14	1.02	23.51	1.98	68.98	5.73	32.45	3.16	96,48 9.0
35 85 10 749-0 67 8- 1 16 264.25 15.59 5.61 1.50 24.55 1.67 241.46 16.29 73.20 3.31 324.74 31.64 18.95 17 749-0 69 8- 0 16 287.48 17.55 7.74 1.48 25.52 1.64 319.42 21.61 33.65 3.42 45.58 46.59 12 749-0 69 8- 0 16 303.95 19.74 9.25 2.66 26.28 2.83 371.79 24.62 33.96 3.93 493.63 44.18 22.65 17 749-0 69 8- 0 16 303.95 19.74 9.25 2.66 26.28 2.83 371.79 24.62 33.96 3.93 493.63 44.18 22.65 17 749-0 69 8- 0 16 332.61 19.56 4.51 1.40 27.17 3.09 436.12 31.67 35.12 3.67 56.30 54.47 27.05 22 729-0 71 8- 1 18 332.91 23.53 6.43 2.09 27.19 3.09 436.12 31.67 35.12 3.67 56.30 54.47 27.05 22 729-0 71 8- 0 16 346.43 24.91 6.76 1.42 27.15 2.01 561.32 40.77 3.62 3.92 27.46 56.32 56.75 27.05 22 729-0 16 74 8- 0 16 372.60 28.99 4.75 1.38 27.19 2.01 561.32 40.77 3.62 3.90 27 73.46 27.54 27.10 27.05 22 72.05 26 8-0 8- 0 - 0 16 372.60 28.99 4.75 1.38 27.19 2.19 724.32 50.07 34.24 3.50 44.10 40.00 27.05 27.05 28.95 3.75 1.40 27.10	15 / 8/3 10 74+0- 18 / 8/3 13 74+0- 20 / 6/3 13 71+0- 22 / 8/3 17 72+0- 22 / 8/3 17 72+0- 27 8/5 22 72+0- 29 / 8/5 24 70+1- 27 9/5 28 8+0- GROUP DATE DAY TEMP 5 0/3 6 8+0- 5 0/3 6 8+0- 11 / 8/5 6 72+0- 12 / 8/5 10 74+0- 13 / 8/5 10 74+0- 27 / 8/5 22 72+0- 27 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 21 / 8/5 6 72+0- 27 / 8/5 24 70+1- 27 / 8/5 24 70+1- 28 / 8/5 3 71+1 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 6 72+0 11 / 8/5 10 74+0)-8 65+ 8-	8 16	235.61	14.38	0.33	1.38	24.53	1.75	142.49	16.62	31.59	3.49	192.30 18.9
87 695 13 7409-2 689-1- 2 16 287-06 17.56 7.74 1.48 25.92 1.84 319.24 21.81 33.69 3.42 425.83 48.99 887 695 13 7409-2 689-1- 2 16 303.95 19.74 888 695 18 7409-0 649-0 1 16 303.95 19.74 889 695 18 7409-0 649-0 1 16 303.95 19.74 889 695 18 7409-0 649-0 1 16 303.95 19.74 889 695 18 7409-0 649-0 1 16 332.91 23.55 889 695 18 7409-0 649-0 1 16 346.43 24.91 889 695 895 18 7409-0 649-0 1 15 335.60 24.95 889 695 18 7409-0 649-0 1 15 335.60 24.95 889 695 18 7409-0 649-0 1 15 335.60 24.95 889 695 28 7409-1 674-0 0 16 346.43 24.91 889 695 28 7409-1 674-0 0 16 346.43 24.91 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 372.60 24.89 889 695 28 7409-1 674-0 0 16 192.61 12.20 889 695 28 7409-1 674-0 0 16 192.61 12.20 889 695 28 7409-1 674-0 0 16 192.61 12.20 889 695 28 7409-0 0 10 0 0 10 10 10 10 10 10 10 10 10 10	18 / 8/3 17 74+0- 20 / 8/3 15 71+6- 22 / 8/3 17 72+6- 25 / 8/3 20 72+0- 27 8/5 22 72+0- 27 8/5 24 70+1- 27 9/5 28 8+0- GROUP DATE DAY TEMF 5 / 8/3 6 8+6- 8 / 8/3 1 73+6- 11 / 8/5 6 72+0- 13 / 8/5 10 74+6- 20 / 8/5 15 71+6- 22 / 8/5 17 72+6- 27 8/5 20 72+0- 27 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 20 / 8/5 24 70+1- 20 / 8/5 24 70+1- 20 / 8/5 24 70+1- 20 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 21 / 8/5 24 70+1- 22 / 8/5 24 70+1- 23 / 8/5 24 70+1- 24 / 8/5 24 70+1- 25 / 8/5 24 70+1- 27 / 8/5 24 70+1- 28 / 8/5 24 70+1- 28 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 29 / 8/5 24 70+1- 20 / 8	1-8 64+ 8-	8 16	252.63	15.86	8.51	1.38	24.63	1.55	192.16	13.33	32.98	3,37	250.35 25.4
20 0-5 13 71+0-0 0+0 0 0 14 031.59 13.74 0.25 2.06 26.20 2.03 371.79 24.02 33.90 3.93 493.63 44.18 22 0-5 17 72+0-0 0+0 0 1 16 313.91 19.50 4151 1.90 27.17 3.90 46.12 31.27 55.12 3.67 563.08 54.47 22 0-5 20 72+0-0 71+0 0 1 16 332.91 23.53 6.93 2.00 25.00 25.00 27.00 507.01 37.24 74.70 4.53 600.22 60.03 27 0-6 22 72+0-1 0+0 0 0 16 344.43 24.91 0.76 1.12 27.15 2.01 501.33 40.77 73.02 1.92 73.94 73.04 22 0-5 20 0-6 0 0 0 16 348.43 24.91 0.76 1.12 27.15 2.01 501.33 40.77 73.02 1.92 73.94 73.04 22 0-5 20 0-6 0 0 0 16 372.60 20.00 4.75 1.39 27.19 2.07 0.15.65 42.76 35.43 4.21 605.14 70.00 22 0-5 20 0-6 0 0 0 16 372.60 20.00 4.75 1.39 27.19 2.19 72.03 50.05 54.20 3.59 10.10 4.00.03 23 0-5 20 0-6 0 0 0 16 192.61 12.20 0.00 5.00 4.75 1.39 27.19 2.19 72.03 50.05 54.20 3.59 10.10 4.00.03 24 0-5 20 0-6 0 0 0 16 192.61 12.20 0.00 5.00 4.75 1.39 27.19 2.19 72.03 50.05 54.20 3.59 10.10 4.00.03 25 0-5 20 0-6 0 0 0 16 192.61 12.20 0.00 5.00 4.75 1.39 27.19 2.19 72.03 50.05 54.20 3.59 10.10 4.00.03 25 0-5 20 0-6 0 0 0 16 192.61 12.20 0.00 5.00 4.75 1.39 27.19 2.19 72.03 50.05 54.20 3.59 10.10 4.00.03 25 0-5 20 0-6 0 0 0 16 192.61 12.20 0.00 5.00 4.75 1.39 27.19 2.19 72.03 50.05 54.20 3.59 10.10 4.00.03 25 0-5 20 0-6 0 0 0 16 192.61 12.20 0.00 5.00 4.75 1.30 27.19 5.00 50.00 5	20. 6.3 13 71+0- 22. 8.3 17 72+0- 22. 8.5 17 72+0- 27. 8.5 20 72+0- 27. 8.5 22 72+0- 29. 8.5 24 70+1- 2. 9.5 28 8+0- GROUP DATE DAY TEMP 5. 9.3 3 71+1- 11. 8.5 6 72+0- 13. 8.5 10 74+0- 13. 8.5 10 74+0- 27. 8.5 22 72+0- 27. 8.5 24 70+1- 29. 8.5 24 70+1- 2. 9.5 28 6+0- GROUP ATE DAY TEMP ATE DAY TEMP 5. 8.5 12 72+0- 27. 8.5 26 72+0- 27. 8.5 26 72+0- 27. 8.5 26 72+0- 27. 8.5 27 72+0- 27. 8.5 26 72+0- 27. 8.5 27 72+0- 27. 8.5 27 72+0- 27. 8.5 27 72+0- 27. 8.5 27 72+0- 27. 8.5 27 72+0- 27. 8.5 28 6+0- GROUP ATE DAY TEM 5. 8.5 8 8+0 6. 8.5 3 71+1 11. 8.5 6 72+0 13. 8.5 0 73+0 15. 8.5 10 74+0)-8 67+ 8-	1 16	264.25	15.99	5.81	1.30	24.65	1.67	241.46	16.29	33.20	3.31	324.74 31.6
22 65 17 7246-8 044 8-1 16 313.01 15.88 4.51 1.99 27.17 3.99 426.12 31.27 35.12 3.67 563.08 54.47 27 055 26 7240-0 7114 8-1 16 313.01 15.38 4.51 1.99 27.17 3.99 426.12 31.27 35.12 3.67 563.08 54.47 27 055 26 7240-0 714 8-1 16 313.01 15.38 4.51 1.99 27.17 2.07 615.65 42.17 4.17 4.55 668.2 66.03 27 055 26 701-10 666 0-0 0 15 335.69 26.23 3.52 1.67 27.17 2.07 615.65 42.17 35.43 4.21 205.14 76.00 27 055 26 701-10 666 0-0 0 16 372.66 28.08 4.75 1.39 27.19 2.19 724.32 50.05 34.20 3.59 44.21 205.14 76.00 27 055 26 701-10 666 0-0 0 16 372.66 28.08 4.75 1.39 27.19 2.19 724.32 50.05 34.20 3.59 44.21 205.14 76.00 27 055 26 866 0-0 0 16 372.66 28.08 4.75 1.39 27.19 2.19 724.32 50.05 34.20 3.59 44.21 205.14 76.00 27 055 27 05 0 866 0-0 0 16 372.66 28.08 4.75 1.39 27.19 2.19 724.32 50.05 34.20 3.59 44.21 205.14 76.00 27 055 27 05 0 866 0-0 0 16 372.66 28.08 5.08 5.08 5.08 5.08 5.08 5.08 5.08	22/ 8/5 17 72+6- 25/ 8/5 20 72+0- 27/ 8/5 22 72+0- 27/ 8/5 24 70+1- 2/ 9/5 28 8+0- GROUP DATE DAY TEMP 5/ 9/5 6 8+6- 6/ 8/5 1 73+6- 6/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 17 72+6- 22/ 8/5 17 72+6- 22/ 8/5 27 72+0- 27/ 8/5 22 72+0- 27/ 8/5 24 70+1- 2/ 9/5 28 8+0- GROUP *ATE DAY TEM 5/ 8/5 0 73+0- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 17 72+6- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6- 13/ 8/5 10 74+6-)-2 68+ }-	2 16	287.48	17.56	7.74	1.49	25.92	1.84	319.24	2,1.01	33.69	3.42	425.83 40.9
Second Second Price 1 in 332.51 23.53 6.63 2.00 25.65 2.20 507.01 37.24 24.75 33.62 5.90 27.40 27.	25/ 8/5 20 72+0- 27/ 8/5 22 72+0- 29/ 8/5 24 70+1- 2/ 9/5 28 8+0- GROUP DATE DAY TEMP 5/ 8/5 6 72+0- 11/ 8/5 6 72+0- 11/ 8/5 6 72+0- 11/ 8/5 6 72+0- 29/ 8/5 15 71+0- 20/ 8/5 17 72+0- 20/ 8/5 20 72+0- 27/ 8/5 22 72+0- 27/ 8/5 22 72+0- 27/ 8/5 22 72+0- 27/ 8/5 24 70+1- 2/ 9/5 28 8+0- GROUP *ATE DAY TEM 5/ 8/5 6 72+0 8/ 8/5 17 73+0 8/ 8/5 3 71+1 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 15/ 8/5 10 74+0)-B 66+ B-	0 16	303.99	19.74	0.25	8.06	26.28	2.03	371.79	24.62	33.90	3.93	493,63 48,1
27 8/5 22 72-0-1 67+ 0- 0 16 346.43 24.91 6.76 1.142 27.15 2.01 561.52 40.77 33.62 3.92 735.46 75.04 29.09 85 24 70-1-0 66+ 0- 0 15 333.69 26.23 3.52 1.67 27.17 2.07 615.65 42.70 55.43 4.21 605.14 76.20 27 9/5 28 0+0-0 0+0- 0 16 372.60 28.98 4.75 1.39 27.19 2.19 724.12 50 05 34.20 5.59 941.04 60.03 27 9/5 28 0+0-0 0+0- 0 16 372.60 28.98 4.75 1.39 27.19 2.19 724.12 50 05 34.20 5.59 941.04 60.03 27 9/5 28 0+0-0 0+0- 0 16 372.60 28.98 4.75 1.39 27.19 2.19 724.12 50 05 34.20 5.59 941.04 60.03 27 9/5 28 0+0-0 0+0- 0 16 192.61 12.28 6.00 8.00 8.00 8.00 8.00 8.00 8.00 8.0	27/ 8/5 22 72+0- 29/ 8/5 24 70+1- 2/ 9/5 28 8+0- GROUP DATE DAY TEMP 5/ 8/5 6 8+0- 6/ 8/5 1 73+0- 11/ 8/5 6 72+0- 13/ 8/5 10 74+0- 13/ 8/5 15 71+0- 28/ 8/5 17 72+0- 29/ 8/5 27 72+0- 27/ 8/5 22 72+0- 27/ 8/5 22 72+0- 27/ 8/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 2/ 9/5 24 70+1- 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240 1/ 9/5 27 240)-0 65+ 0-	1 16	313.01	19.50	4.51	1.98	27.17	3.98	426.12	31.27	35.12	3.67	563.88 54.4
97 845 04 701-10 66+ 0- 0 15 353-58 26-23 3.52 1.67 27.17 2.07 615-65 42.76 75-43 4.21 805-14 76-00 27 97-528 8-0-0 0+ 0- 0 16 372-60 28-08 4.75 1.79 27.19 27.19 27.19 27.19 27.19 27.10 724-12 50 07 54-26 5.59 911-24 90.03 50 07 54-26 5.69 911-24 90.03 50 07 54-26 91.29	29/ 8/5 24 70+1- 2/ 9/5 28 8+0- GROUP DATE DAY TEMP 5/ 9/5 6 8+0- 6/ 9/5 1 73+0- 11/ 8/5 6 72+0- 13/ 9/5 10 74+0- 13/ 9/5 17 72+0- 29/ 9/5 17 72+0- 29/ 9/5 17 72+0- 29/ 9/5 22 72+0- 29/ 9/5 24 70+1- 2/ 9/5 28 8+0- GROUP *ATE DAY TEM 5/ 8/5 3 71+1 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 0 73+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 11/ 8/5 6 72+0 15/ 8/5 10 74+0)-0 71+ B-	1 16	332.91	23.53	6.63	3.00	26.96	35.5	507.01	37.24	34.70	4.53	668.22 66.6
CROUP 5 DATE DAY TEMP HUMIDITY N X8AR SD X8AR	GROUP DATE DAY TEMP 3/ 0/3 0 5+6- 6/ 0/3 1 73+6- 8/ 0/3 3 71+1- 11/ 8/5 6 72+0- 13/ 0/3 13 74+6- 13/ 0/3 13 74+6- 20/ 0/3 15 71+6- 22/ 0/3 24 70+1- 22/ 0/3 24 70+1- 22/ 0/3 24 70+1- 22/ 0/3 24 70+1- 24/ 0/3 24 70+1- 25/ 0/3 24 70+1- 27/ 0/3 2	j-1 67+ Q-	0 16	346.43	24.91	6.76	1.42	27.15	10.5	561.32	40.77	33.62	5.92	735.46_ 73.6
GROUP 5 DATE DAY TEMP HUMIDITY H XBAR SD XARR SD XARR SD TOTAL SD TO DATE SD ABAR S	GROUP DATE DAY TEMP 3/ 0/3 0 5+8- 6/ 0/3 1 73+8- 8/ 0/3 3 71+1- 11/ 0/5 6 72+0- 13/ 0/5 15 71+0- 20/ 0/5 17 72+0- 27/ 0/5 22 72+0- 27/ 0/5 24 70+1- 2/ 0/5 2	-0 66+ 0-	0 15	353.68	56.53	3.92	1.67	27,17	2.07	615.65	42.76	35.43	4.21	205.14 76.3
DATE DAY TEMP HUMIDITY N MARK SD CAG. BODY LT. XBAR SD TO BATE SD TO BATE SD XBAR SD TO BATE SD XBAR SD TO BATE SD XBAR SD TO BATE SD TO BATE SD XBAR SD TO BATE SD TO BATE SD XBAR SD TO BATE SD XBAR SD TO BATE	DATE DAY TEMP 5)-B B+ O-	9 16	372.68	28.98	4.75	1.38	27.19	2.19	724: 12	50 05	34.26	3.59	941.94 90.8
DATE DAY TEMP HUMIDITY H WARE SD CHG BODY WIT ABAR SD TO RATE SD WARR SD TO RATE SD TO RATE SD WARR SD TO RATE SD TO RATE SD WARR SD TO RATE SD	DATE DAY TEMP 3/ 8/3 8 8+8- 6/ 8/3 1 73+8- 8/ 8/3 3 71+1- 11/ 8/5 6 72+0- 13/ 8/5 10 74-8- 13/ 8/5 10 74-8- 13/ 8/5 17 72+8- 25/ 8/5 20 72+0- 27/ 8/5 22 72+0- 29/ 8/5 24 70+1- 2/ 9/3 28 8+0- GROUP PATE DAY TEM 3/ 8/5 8 8+8 8/ 8/5 1 73+8 8/ 8/5 1 73+8 11/ 8/5 6 72+0 11/ 8/5 0 73+0 11/ 8/5 0 73+0 11/ 8/5 0 73+0						4							
DATE DAY TEMP HUMIDITY N XBRR SD XBRR SD XBRR SD TOPATE SD XBRR SD	5/ 0/3 6 8+8- 6/ 8/3 1 73+8- 8/ 8/3 3 71+1- 11/ 8/5 6 72+8- 13/ 8/5 0 73+0- 15/ 8/5 10 74+8- 15/ 8/5 15 71+8- 28/ 8/5 15 71+8- 28/ 8/5 22 72+0- 27/ 8/5 24 70+1- 2/ 9/3 28 8+0- GROUP *ATE DAY TEM 5/ 8/5 0 8+8 8/ 8/5 1 73+8 8/ 8/5 1 73+8 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 1 73+8	5												
5 / 0 / 5 6 6 6 6 6 6 12 12 12	5/ 8/5 6 746- 6/ 8/5 1 73+8- 8/ 8/5 3 71+1- 11/ 8/5 6 72+8- 13/ 8/5 9 73+8- 15/ 8/5 16 74/8- 15/ 8/5 15 71+8- 28/ 8/5 17 72+8- 29/ 8/5 20 72+0- 29/ 8/5 24 70+1- 2/ 9/5 28 8+0- GROUP PATE DAY TEM 5/ 8/5 8 8+8 8/ 8/5 1 73+8 8/ 8/5 3 71+1 11/ 8/5 6 72+9 13/ 8/5 0 73+0 15/ 8/5 10 74+8			M YGOG	E I GHT	CHG. B	ODY HT.		POOD C			1	MATER	
6 × 8 · 3	6 / 8 / 3 1 73+8- 8 / 8 / 3 3 71+1- 11 / 8 / 5 6 72+0- 13 / 8 / 5 0 73+8- 13 / 8 / 5 10 74+8- 13 / 8 / 5 10 74+8- 14 / 8 / 5 15 71+8- 28 / 8 / 5 17 72+0- 27 / 8 / 5 20 72+0- 27 / 8 / 5 20 72+0- 27 / 8 / 5 20 72+0- 27 / 8 / 5 20 72+0- 27 / 8 / 5 20 72+0- 27 / 8 / 5 20 72+0- 27 / 8 / 5 20 72+0- 27 / 8 / 5 20 72+0- 27 / 8 / 5 20 73+0 28 / 8 / 5 3 71+1 29 / 5 7 7 7 7 7 29 / 5 6 7 7 7 20 / 7 7 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 21 / 8 / 5 10 7 7 22 / 8 / 5 10 7 7 23 / 8 / 5 10 7 7 24 / 8 / 5 10 7 7 25 / 8 / 5 10 7 7 26 / 8 / 7 7 7 27 / 8 / 7 7 7 28 / 7 7 7 7 29 / 8 / 7 7 7 20 / 8 / 7 7 7 20 / 8 / 7 7 7 20 / 8 / 7 7 7 20 / 8 / 7 7 7 20 / 8 / 7 7 7 20 / 8 / 7 7 7 20 / 8 / 8 / 8 20 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 20 / 8 / 8 / 8 20 / 8 / 8 20 / 8 / 8 20 / 8 / 8 20 / 8 / 8 20 / 8 / 8 20 / 8 / 8 20 / 8 / 8 20 / 8 / 8 20 / 8 / 8 20 / 8 /	1P HUMIDIT	Y 14	XBAR	50	XBAR	SD	XBAR	SD	TO DATE	SD	XBAR	SD	TC DATE SD
6 × 8 · 3	6 / 6 / 3 1 73+8- 8 / 6 / 3 3 71+1- 11 / 8 / 5 6 72+0- 13 / 8 / 5 6 74+6- 13 / 8 / 5 10 74+6- 13 / 8 / 5 10 74+6- 28 / 6 / 5 17 72+0- 29 / 8 / 5 27 72+0- 27 / 8 / 5 27 72+0- 27 / 8 / 5 27 72+0- 27 / 8 / 5 27 72+0- 27 / 8 / 5 27 72+0- 27 / 8 / 5 27 72+0- 27 / 8 / 5 27 72+0- 27 / 8 / 5 27 72+0- 27 / 8 / 5 27 72+0- 28 / 8 / 5 1 73+6 38 / 8 / 5 3 73+6 11 / 8 / 5 1 73+6 13 / 8 / 5 1 74+6 15 / 8 / 5 1 74+6													
8/ 8/5 3 71+1-8 63+ 8-1 16 214.36 13.24 7.84 1.31 24.21 1.66 72.25 5.12 34.26 2.58 182.87 9.51 11/ 8/5 6 72+0-8 65+ 8-10 16 248.59 14.66 8.88 9.55 25.76 2.89 149.56 18.69 34.14 3.12 204.48 17.50 13/ 8/5 6 73+0-8 64+ 8-10 16 259.17 15.96 9.89 1.57 26.73 3.44 203.02 17.13 35.94 4.50 276.76 25.63 13/ 8/5 10 74+0-8 67+ 8-1 15 271.88 16.40 5.96 1.44 25.89 1.91 254.81 19.68 35.38 4.85 34.68 34.93 13/ 8/5 10 74+0-2 68+ 1-2 16 259.31 71.8 6.29 1.28 27.53 2.60 337.41 27.42 35.75 5.32 453.93 49.21 18/ 8/3 13 74+0-2 68+ 1-2 16 259.33 17.18 6.29 1.28 27.53 2.60 337.41 27.42 35.75 5.32 453.93 49.21 18/ 8/3 15 71+0-6 68+ 0-16 311.58 17.65 7.82 1.23 27.19 2.54 393.36 31.78 35.27 6.18 524.47 61.17 18/ 8/3 20 72+0-0 71+ 0-1 16 345.39 18.07 6.71 1.70 29.30 3.51 536.19 49.12 56.78 6.68 711.07 91.07 18/ 8/3 22 72+9-1 67+ 0-16 16 359.13 19.27 7.87 2.07 30.19 4.50 506.57 53.29 36.50 4.95 704.61 100.6. 18/ 8/3 22 72+9-1 67+ 0-15 308.13 21.28 5.25 1.07 20.41 2.27 766.29 61.14 36.32 5.68 1005.03 124.42 18/ 8/3 20 72+0-0 6+ 0-15 308.13 21.28 5.25 1.07 20.41 2.27 766.29 61.14 36.32 5.68 1005.03 124.42 18/ 8/3 3 71+1-0 63+ 8-1 16 215.02 18.98 7.73 1.39 26.37 6.48 75.99 14.26 33.63 4.16 98.61 11.77 18/ 8/3 3 71+1-0 63+ 8-1 16 215.02 18.98 7.73 1.39 26.37 6.48 75.99 91.07 31.99 4.41 94.15 20.05 107.00	8)-D 0+ 0-	0 16	192.61	15.56	0.88	6.36	6,00	0.30	9.00	0.68	9.00	0.00	3.00 8.0
11/ 8/5 6 72+0-0 65+ 0- 0 16 240.99 14.66 8.88 8.95 25.76 2.89 149.56 10.69 34.14 3.12 204.48 17.50 13/ 8/5 0 73+0-0 64+ 0- 0 16 259.17 15.96 9.89 1.57 26.73 3.44 203.02 17.13 35.94 4.50 276.56 25.63 13/ 8/5 10 74+0-0 67+ 0- 1 15 271.08 16.40 5.96 1.44 25.89 1.91 254.01 19.60 35.38 4.05 346.68 34.39 18/ 8/7 13 74+0-2 68+ 1- 2 16 295.93 17.10 8.29 1.20 27.53 2.00 337.41 27.42 35.75 5.32 453.93 49.21 20/ 8/5 15 71+0-0 66+ 0- 0 16 311.90 17.65 7.02 1.23 27.40 2.54 393.36 31.70 35.27 6.18 524.47 61.17 20/ 8/2 207 17 72+0-0 69+ 0- 1 16 23.27 17.95 5.85 1.72 27.47 2.34 443.31 35.17 39.12 5.70 600.70 71.71 1.70 25/ 8/5 20 72+0-0 71+ 0- 1 16 345.39 10.07 6.71 1.70 25/ 30.19 45/ 35.15 36.10 4.95 774.00 10.07 11.71 1.70 25/ 30.19 45/ 35.15 36.10 4.95 774.00 10.07 11.70 11.7	11 / 8/5	J-0 64+ 8·	0 16	198.67	12.56	6.66	2.63	23.66	3.43	23.00	3.43	33.54	3.40	33.54 3.4
137 8-5 8 7340-8 644 8-8 16 259.17 15.96 9.89 1.57 26.73 3.44 203.02 17.13 35.94 4.50 276.76 25.63 15.20 8-5 16 7446-8 674 8-1 15 271.08 16.40 5.96 1.44 25.89 1.91 254.81 19.68 35.38 4.85 346.68 34.39 19.20 8-5 15 7140-8 664 8-8 16 311.98 17.65 7.82 1.23 27.08 2.54 393.36 31.78 35.27 6.18 524.47 61.17 222 8-5 17 7240-8 694 8-1 16 223.27 17.95 5.85 1.72 27.47 2.34 443.31 35.17 39.12 5.70 600.70 71.71 1.72 1.72 1.72 1.72 1.72 1.72 1.7	13 / 8 / 5	1-8 63+ 0-	1 16	214.36	13.24	7.84	1.31	24.21	1.66	72,29	5.12	34.26	2.98	102.07 0.9
137 8-5 10 74-8-8 67+ 8-1 15 271.08 16.48 5.96 1.44 25.89 1.91 254.81 19.68 35.38 4.85 346.68 34.39 19.97 13 74+8-2 68+ 1- 2 16 255.93 17.18 8.29 1.20 27.53 2.68 337.41 27.42 35.75 5.32 453.93 49.21 29.28 8-5 15 71+8-8 68+ 8- 8 16 311.98 17.65 7.82 1.23 27.98 2.54 393.36 31.78 35.27 6.18 524.47 61.17 22.28 8-5 17 72+8-8 69+ 0- 1 16 223.27 17.95 5.85 1.72 27.47 2.34 4483.31 35.17 38.12 5.70 600.70 71.71 252 8-5 20 72+0-0 71+ 0- 1 16 345.39 18.07 6.71 1.78 29.30 3.51 336.19 42.12 36.78 6.60 711.07 91.07 252 8-5 22 72+9-1 67+ 0- 8 16 359.13 19.27 7.87 2.87 70.19 4.50 596.57 53.29 36.50 4.95 784.04 100.42 222 8-22 8-22 8-22 8-22 8-22 8-22 8-2	13 / 8/5 10 74/0- 19 / 8/5 13 74/0- 28 / 8/5 13 71+0- 22 / 8/5 17 72+0- 25 / 8/5 20 72+0- 27 / 8/5 22 72+0- 29 / 8/5 24 70+1- 2 / 9/5 28 0+0- GROUP PATE DAY TEM 5 / 8/5 0 8+0 6 / 8/5 1 73+0 11 / 8/5 6 72+0 13 / 8/5 0 73+0 15 / 8/5 10 74+0	3-8 45+ 8-	0 16	240.99	14,66	8.88	8.95	25.76	2.69	149.56	10.69	34.14	3.12	204.48 17.5
187 6-5 13 7446-2 684 1- 2 16 295.93 17.18 8.29 1.20 27.53 2.00 337.41 27.42 35.75 5.32 453.93 49.21 287 6-5 15 7146-8 664 6- 8 16 311.58 17.65 7.82 1.23 27.58 2.54 393.36 31.78 35.27 6.18 524.47 61.17 227 8-5 17 7248-8 694 6- 1 16 223.27 17.95 5.85 1.72 27.47 2.34 443.31 35.17 38.12 5.70 608.70 71.71 227 8-5 27 240-0 714 0- 1 16 345.39 18.07 6.71 1.78 29.30 3.51 536.19 45.13 36.78 6.68 711.07 91.07 27 8-5 27 240-0 714 0- 1 16 345.39 18.07 6.71 1.78 29.30 3.51 536.19 45.13 36.78 6.68 711.07 91.07 27 8-5 27 240-0 16 15 367.14 20.85 4.80 1.27 28.04 2.05 652.65 55.20 38.21 6.40 860.12 112.75 27 8-5 28 24 7041-8 664 0- 8 15 367.14 20.85 4.80 1.27 28.04 2.05 652.65 55.20 38.21 6.40 860.12 112.75 27 8-5 28 28 8-6 0-0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19/ 9/3 13 74+6- 28/ 8/5 15 71+6- 28/ 8/5 17 72+6- 28/ 8/5 20 72+0- 27/ 8/5 22 72+0- 29/ 8/5 24 70+1- 2/ 9/5 28 0+6- GROUP *ATE DAY TEM 5/ 8/5 6 8+6 8/ 8/5 3 71+1 11/ 8/5 6 72+0 15/ 8/5 10 74+6	3-8 64+ 8-	9 16	259.17	15.96	9.89	1.57	26.73	3.44	203.02	17.13	35.94	4.50	276.76 25.6
28/ 8/5 15 71+8-8 66+ 8- 8 16 311.98 17.65 7.82 1.23 27.08 2.54 393.36 31.78 35.27 6.18 \$24.47 61.17 22/ 8/5 17 72+8-8 69+ 8- 1 16 223.27 17.95 5.85 1.72 27.47 2.34 443.31 35.17 38.12 5.70 608.70 71.71 25/ 8/5 26 72+8-0 71+ 8- 1 16 343.39 18.07 6.71 1.78 29.30 3.51 516.19 45.12 36.78 6.69 711.07 91.407 27/ 8/5 22 72+9-1 67+ 8- 8 16 359.13 19.27 7.87 2.87 70.19 4.50 506.57 53.29 36.50 4.95 784.04 180.00 22/ 8/5 24 78+1-8 66+ 8- 8 15 369.13 21.28 5.25 1.07 28.04 2.05 652.65 55.20 38.21 6.40 660.12 112.75 22/ 8/5 24 78+1-8 66+ 8- 8 15 388.13 21.28 5.25 1.07 28.41 2.27 766.29 61.14 36.32 5.68 1005.03 134.02 22/ 8/5 24 78+1-8 66+ 8- 8 15 388.13 21.28 5.25 1.07 28.41 2.27 766.29 61.14 36.32 5.68 1005.03 134.02 22/ 8/5 24 78+1-8 66+ 8- 8 15 388.13 21.28 5.25 1.07 28.41 2.27 766.29 61.14 36.32 5.68 1005.03 134.02 22/ 8/5 24 78+1-8 66+ 8- 8 15 388.13 21.28 5.25 1.07 28.41 2.27 766.29 61.14 36.32 5.68 1005.03 134.02 22/ 8/5 24/ 8/	28/ 8/5 15 71+8- 22/ 8/5 17 72+0- 25/ 8/5 20 72+0- 25/ 8/5 24 70+1- 2/ 8/5 24 70+1- 2/ 8/5 24 70+1- 2/ 8/5 24 70+1- 3/ 8/5 6 8+8- 4/ 8/5 1 73+8- 11/ 8/5 6 72+0 15/ 8/5 1 73+8- 15/ 8/5 1 73+8-	5-8 67+ 8-	1 15	\$ 271.88	16.48	5.96	1.44	25.89	1.91	254.81	19.60	35.38	4.85	346.68 34.3
222 875 17 7240-8 694 8-1 16 123.27 17.95 5.85 1.72 27.47 2.34 449.31 35.17 38.12 5.70 608.70 71.71 252 87.85 28 7240-0 714 8-1 16 345.39 18.07 6.71 1.78 29.30 3.51 5.60.19 45.12 36.78 6.69 711.07 91.07 27.87 875 27.89 28 7240-1 674 8-1 16 345.39 18.07 7.87 2.07 70.19 4.50 506.57 57.29 56.50 4.95 784.04 100.60 27.82 87.84 7841-8 664 8-1 13 367.14 20.85 4.80 1.27 28.04 2.05 652.65 55.28 38.21 6.40 860.12 112.75 28.94 28 84.94 8-1 15 388.13 21.28 5.25 1.07 28.41 2.27 766.29 61.14 36.32 5.68 1005.03 134.42 27.42 28.94 2	22/ 8/5 17 72+0- 25/ 8/5 28 72+0- 25/ 8/5 24 70+1- 29/ 8/5 24 70+1- 2/ 9/5 23 0+0- GROUP PATE DAY TEM 5/ 8/5 6 8+0 6/ 8/5 1 73+0 8/ 8/5 6 72+0 11/ 8/5 0 73+0 15/ 8/5 10 74+0	3-2 68+ 1-	S 16	295.93	17.18	8.29	1.20	27.53	2.68	337.41	27.42	35.75	5.32	453.93 49.2
25 8-5 26 72+0-0 71+ 0-1 16 345.39 18.07 5.71 1.70 29.30 3.51 330.19 40.12 56.78 6.69 711.07 91.07 91.07 872 82 72+0-1 67+ 0-6 16 359.13 19.27 7.87 2.07 70.19 4.50 596.57 53.29 56.50 4.95 784.04 100.6.7 20 8-5 24 70+1-0 66+ 0-6 15 367.14 20.05 4.90 1.27 28.04 2.05 652.65 55.20 38.21 6.40 863.12 112.75 28 9-5 28 8-0-0 €+ 0-6 15 368.13 21.28 5.25 1.07 20.41 2.27 766.29 61.14 36.32 5.68 1005.03 154.42 38 9-5 28 8-0-0 €+ 0-6 15 368.13 21.28 5.25 1.07 20.41 2.27 766.29 61.14 36.32 5.68 1005.03 154.42 38 9-5 28 8-0-0 €+ 0-6 15 368.13 21.28 5.25 1.07 20.41 2.27 766.29 61.14 36.32 5.68 1005.03 154.42 39 8-2 28 8-0-0 €+ 0-6 16 192.32 9.55 8.80 €.80 8.80 8.80 8.80 8.80 8.80 8.80	25/ 8/5 26 72+0- 27/ 8/5 24 70+1- 29/ 8/5 24 70+1- 2/ 9/5 23 040- GROUP PATE DAY TEM 5/ 8/5 0 8+0 4/ 8/5 1 73+0 8/ 8/5 0 73+0 13/ 8/5 0 73+0 15/ 8/5 10 74+0	8-8 8-6 B-												
27/ 8/3 22 72+9-1 67+ 0- 0 16 359,13 19,27 7.87 2.07 70,19 4.50 596,57 53,29 36,50 4.95 784,04 100,62 29/ 8/3 24 70+1-0 66+ 0- 0 13 367,14 20.05 4.00 1,27 28,04 2.05 652,65 55,20 38,21 6.40 60,12 112,75 2/ 9/3 28 040-0 6+ 0- 0 15 369,13 21,20 5.25 1.07 20,41 2.27 766,29 61,14 36,32 5.68 1005,03 154,42 3/ 27 26,40 61,40 64,	27/ 8/5 22 72+0- 29/ 8/5 24 70+1- 2/ 9/5 28 0+0- GROUP PATE DAY TEM 5/ 8/5 8 8+0 6/ 8/5 1 73+0 8/ 8/5 3 71+1 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+0		ø !6	311.50	17.65	7.82	1.23	27.58	2.54	393.36	31,78	35.27	6.18	524.47 61.1
29/ 8/3 24 70+1-8 66+ 0- 8 15 397,14 20.85 4.80 1.27 28.04 2.05 652.65 55.23 38.21 6.40 60.12 112.75 28.94 28 840-0 6+ 8- 8 15 388.13 21.28 5.25 1.07 28.41 2.27 766.29 61.14 36.32 5.69 1005.03 154.42 GROUP 6 PATE DAY TEMP MUMIDITY N XBAR SD CHG, BODY MT. XBAR SD TO DATE SD SD TO	29/ 8/3 24 70+1- 2/ 9/3 28 0+0- GROUP PATE DAY TEM 3/ 8/5 0 0+0 6/ 8/5 1 73+0 8/ 8/5 3 71+1 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+0													
GROUP 6 AND TEMP HUMIDITY N XBAR SD XBAR SD XBAR SD XBAR SD XBAR SD XBAR SD TO DATE SD XBAR SD TO DATE SD T	CROUP CROUP CROUP CATE DAY TEM SAME BAY	0-8 69+ 0-	1 16	C23.27	17.95	5,85	1.72	27.47	2.34	443.31	35.17	38.12	5.70	600.70 71.7
GROUP 6 PATE DAY TEMP HUHIDITY N XBAR SD XBAR SD XBAR SD XBAR SD XBAR SD TOTAL 3 8/5 6 8-8-6 8+8- 8 16 192.32 9.35 8.88 8.88 8.88 8.89 8.324 8.51 23.24 8.51 32.54 3.68 32.54 3.61 8 8/5 1 73+8-8 64+ 8- 8 16 199.56 18.28 7.24 8.88 83.24 8.51 23.24 8.51 32.54 3.68 32.54 3.61 8 8/5 3 71+1-0 63+ 8- 1 16 215.82 18.98 7.73 1.39 26.37 6.48 75.98 14.26 33.83 4.16 98.61 11.77 11/ 8/5 6 72+8-8 65+ 8- 8 16 241.56 13.85 8.85 1.13 25.84 5.65 153.49 29.87 31.99 4.41 194.56 24.67 13/ 8/5 0 73+8-0 64+ 0- 8 16 259.19 15.13 8.82 1.31 25.49 3.55 284.47 35.37 33.93 4.96 262.42 34.27 15/ 8/5 10 74+8-8 67+ 8- 1 16 271.41 15.58 6.11 1.71 26.43 2.63 257.32 39.57 34.81 4.75 332.03 42.27 18/ 8/5 13 74+8-2 68+ 1- 2 15 285.49 17.11 8.02 9.96 27.36 4.64 339.27 53.02 35.87 5.48 437.24 57.5 28/ 8/5 17 72+0-0 66+ 8- 1 16 324.45 19.10 5.87 1.95 27.79 2.41 449.80 62.89 37.03 5.64 577.47 78.4 25/ 8/5 20 72+0-8 71+ 8- 1 16 346.10 20.77 7.22 1.30 29.26 4.23 50.700 70.10 30.34 5.70 600.49 94.4	GROUP PATE DAY TEM 5/ 8/5 8 8+6 6/ 8/5 1 73+6 8/ 8/5 3 71+1 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+6	8-8 69+ 8- 0-0 71+ 0-	1 16	343.27 343.39	17.95 18.67	5,85 6,71	1.72	27,47 29,30	2.34 3.51	443.31 536.19	35,17 45,13	38.12 36.78	5.7 6 6.69	600.70 71.7 711.0° 91.0
PATE DAY TEMP HUMIDITY N XBAR SD CHG. BODY MT. XBAR SD TO TOTAL SD XBAR SD TOTAL SD XBAR SD TOTAL SD XBAR SD TOTAL SD XBAR SD TO DATE SD TO DATE SD XBAR SD TO DATE SD TO	7ATE DAY TEM 5/ 8/5 0 8+0 6/ 9/5 1 73+0 8/ 8/5 3 71+1 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+0	8-8 69+ 8- 0-0 71+ U- 9-1 67+ 8-	1 16 1 16 6 16	343.39 359.13	17.95 18.07 19.27	5.85 6.71 7.87	1.72	27,47 29,30 30,19	2.34 3.51 4.50	443.31 536.19 596.57	35.17 40.13 53.29	38.12 36.78 56.50	5.7 0 6.68 4.95	711.0° 71.7 711.0° 91.0 781.01 100.0
PATE DAY TEMP HUMIDITY N XBAR SD CHG. BODY WIT XBAR SD XBAR SD XBAR SD XBAR SD XBAR SD TO DATE SD TO DATE SD TO DATE SD TO DATE SD XBAR SD TO DATE SD T	7ATE DAY TEM 5/ 8/5 0 8+0 6/ 9/5 1 73+0 8/ 8/5 3 71+1 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+0	8-6 69+ 8- 0-0 71+ 8- 9-1 67+ 8- 1-8 66+ 8-	1 16 1 16 6 16	343.27 343.39 359.13 367.14	17.95 18.97 19.27 20.05	5,85 6,71 7,87 4,90	1.72 1.78 2.07 1.27	27,47 29,30 30,19 28,04	2.34 3.51 4.50 2.05	448.31 536.19 596.57 652.65	35.17 45.13 53.29 55.28	38.12 36.78 56.50 38.21	5.7 0 6.69 4.95 6.40	600.70 71.7 711.07 91.0 784.04 100.6 860.12 112.7
PATE DAY TEMP HUMIDITY N XBAR SD CHG. BODY WIT. SO XBAR SD TO DATE SD XBAR SD TO DATE SD SO XBAR SD TO DATE SD	3/ 8/3 0 8+0 6/ 8/3 1 73+0 8/ 8/3 3 71+1 11/ 8/3 6 72+0 13/ 8/3 0 73+0 15/ 8/3 10 74+0	0-8 69+ 0- 0-0 71+ 0- 0-1 67+ 0- 1-0 66+ 0-	1 16 1 16 6 16	343.27 343.39 359.13 367.14	17.95 18.97 19.27 20.05	5,85 6,71 7,87 4,90	1.72 1.78 2.07 1.27	27,47 29,30 30,19 28,04	2.34 3.51 4.50 2.05	448.31 536.19 596.57 652.65	35.17 45.13 53.29 55.28	38.12 36.78 56.50 38.21	5.7 0 6.69 4.95 6.40	600.70 71.7 711.07 91.0 784.04 100.6 860.12 112.7
32 825 8 846-8 84 8- 8 16 192.32 9.55 8.88 6.68 8.80 0.86 0.88 8.88 8.88 8.89 17348-8 644 8- 8 16 199.56 18.88 7.24 2.88 23.24 2.51 23.24 2.51 32.54 3.68 32.54 3.68 82.89 37141-0 634 8- 1 16 215.02 18.88 7.73 1.39 26.37 6.40 75.98 14.26 33.03 4.16 98.61 11.75 11.7	3/ 8/3 0 8+0 6/ 8/3 1 73+0 8/ 8/3 3 71+1 11/ 8/3 6 72+0 13/ 8/3 0 73+0 15/ 8/3 10 74+0	0-8 69+ 0- 0-0 71+ 0- 0-1 67+ 0- 1-0 66+ 0-	1 16 1 16 6 16	343.27 343.39 359.13 367.14	17.95 18.97 19.27 20.05	5,85 6,71 7,87 4,90	1.72 1.78 2.07 1.27	27,47 29,30 30,19 28,04	2.34 3.51 4.50 2.05 2.27	448.31 536.19 596.57 652.65 766.29	35.17 45.13 53.29 55.28	38.12 36.78 56.50 38.21	5.7 6 6.69 4.95 6.40 5.69	600.70 71.7 711.0 91.0 784.04 100.6 860.12 110.7 1005.03 134.4
4 6 8 5 1 73+0-0 64+ 0- 0 16 199.56 10.20 7.24 2.00 23.24 2.51 23.24 2.51 32.54 3.60 32.54 3.60 8 8 8 8 3 71+1-0 63+ 0- 1 16 215.02 10.50 7.73 1.39 26.37 6.40 75.90 14.26 33.03 4.16 98.61 11.75 11/8/5 6 72+0-0 65+ 0- 0 16 241.56 13.05 0.05 1.13 25.04 5.65 153.49 29.07 31.99 4.41 194.56 24.55 13/8/5 0 73+0-0 64+ 0- 0 16 259.19 15.13 0.02 1.31 25.49 3.50 204.47 35.37 33.93 4.96 262.42 34.25 15/8/8/5 10 74+0-0 67+ 0- 1 16 271.41 15.50 6.11 1.71 26.43 2.63 257.32 39.57 34.01 4.75 332.03 42.95 18/8/5 13 74+0-2 68+ 1- 2 15 295.49 17.11 0.02 0.96 27.36 4.64 339.27 53.02 35.07 5.40 437.24 57.50 20/8/5 15 71+0-0 66+ 0- 0 16 312.72 10.90 0.62 1.71 27.49 4.09 394.22 59.79 33.00 6.10 503.41 67.00 20/8/2/6/5 17 72+0-0 69+ 0- 1 16 324.45 19.10 5.87 1.05 27.09 24.41 449.00 62.89 37.03 5.64 577.47 78.44 20/8/5 20 72+0-0 71+ 0- 1 16 306.10 20.72 70.20 1.30 20/2/6 4.23 50/2/0 70.10 30/3/4 5.70 60/0.49 94.44	6/ 8/5 1 73+8 8/ 8/5 3 71+1 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+8	0-8 69+ 0- 0-0 71+ U- 0-1 67+ 0- 1-8 66+ U- 0-0 C+ 0-	1 16 1 16 6 16 6 15	343.27 343.39 359.13 367.14 5368.13	17.95 18.97 19.27 20.85 21.28	5,85 6,71 7,87 4,80 5,25	1.72 1.78 2.87 1.27 1.67	27,47 29,30 30,19 28,04 26,41	2.34 3.51 4.50 2.05 2.27	449.31 536.19 596.57 652.65 766.29	35.17 45.13 53.29 55.28 61.14	38.12 36.78 56.50 38.21 36.32	5.70 6.69 4.95 6.40 5.69	600.70 71.7 711.0 91.0 784.04 100.6 860.12 110.7 1005.03 134.4 CONSUMED TOTAL
### ### ### ### ### ### ### ### ### ##	6/ 8/5 1 73+8 8/ 8/5 3 71+1 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+8	0-8 69+ 0- 0-0 71+ U- 0-1 67+ 0- 1-8 66+ U- 0-0 C+ 0-	1 16 1 16 6 16 6 15	343.27 343.39 359.13 367.14 5368.13	17.95 18.97 19.27 20.85 21.28	5,85 6,71 7,87 4,80 5,25	1.72 1.78 2.87 1.27 1.67	27,47 29,30 30,19 28,04 26,41	2.34 3.51 4.50 2.05 2.27	449.31 536.19 596.57 652.65 766.29	35.17 45.13 53.29 55.28 61.14	38.12 36.78 56.50 38.21 36.32	5.70 6.69 4.95 6.40 5.69	600.70 71.7 711.0 91.0 784.04 100.6 860.12 110.7 1005.03 134.4 CONSUMED TOTAL
87 87 87 87 87 87 87 87 87 87 87 87 87 8	8/ 8/5 3 71+1 11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+0	0-8 69+ 0- 0-0 71+ 0- 0-1 67+ 0- 1-8 66+ 0- 0-0 6+ 0-	1 16 1 16 6 16 6 15	6 U23.27 5 345.39 6 359.13 5 397.14 5 388.13	17.95 18.07 19.27 20.05 21.28	5.85 6.71 7.87 4.60 5.25	1.72 1.78 2.07 1.27 1.07	27,47 29,30 70,19 28,04 28,41	2.34 3.51 4.50 2.05 2.27 FOOD C	449.31 036.19 596.57 652.65 766.29	35.17 45.12 53.29 55.28 61.14	38.12 36.78 56.50 38.21 36.32	5.70 6.68 4.95 6.4n 5.68 WATER SD	600.70 71.7 711.07 91.0 784.0. 100.6 860.12 112.7 1005.03 134.4 CONSUMED TOTAL TO DATE SI
11/8/5 6 72+0-0 65+ 0-0 16 241.56 13.05 0.05 1.13 25.04 5.65 153.49 29.07 31.99 4.41 194.56 24.65 13/8/5 0 73+0-0 64+ 0-0 16 259.19 15.13 0.02 1.31 25.49 3.50 264.47 35.37 33.93 4.96 262.42 34.25 15/8/5 10 74+0-0 67+ 0-1 16 271.41 15.50 6.11 1.71 26.43 2.63 257.32 39.57 34.01 4.79 332.03 42.05 18/8/5 13 74+0-2 60+ 1-2 15 295.49 17.11 0.02 0.96 27.36 4.64 339.27 53.02 35.07 5.40 437.24 57.55 20/8/5 15 71+0-0 66+ 0-0 16 312.72 10.90 0.62 1.71 27.49 4.09 394.22 59.79 33.00 6.10 503.41 67.00 22.64 6/5 17 72+0-0 69+ 0-1 16 324.45 19.10 5.07 1.05 27.79 2.41 449.00 62.09 37.03 5.64 577.47 70.45 25/8/5 20 72+0-0 71+ 0-1 16 349.10 20.77 71.27 1.30 29.26 4.23 507.00 70.10 30.34 5.70 600.49 94.4	11/ 8/5 6 72+0 13/ 8/5 0 73+0 15/ 8/5 10 74+0	0-6 69+ 0- 0-0 71+ 0- 0-1 67+ 0- 1-8 66+ 0- 0-0 6+ 0- 6	1 16 1 16 6 15 6 15	3 (23.27) 3 (45.39) 5 (359.13) 5 (369.13) 5 (369.13) 6 (192.32)	17.95 18.07 19.27 20.05 21.28 WEIGHT SD	5,85 6,71 7,87 4,60 5,25 CHG, E XBAR	1.72 1.78 2.07 1.27 1.07	27,47 29,30 30,19 28,04 26,41 XBAR 8,80	2.34 3.51 4.50 2.05 2.27 FOOD C	448.31 536.19 596.57 652.65 766.29	35,17 45,12 53,29 55,28 61,14 SD	38.12 36.78 36.50 38.21 36.32 XBAR	5.70 6.69 4.95 6.4n 5.69 WATER SD	600.70 71.7 711.07 91.0 784.0: 100.6 860.12 112.7 1005.03 134.4 CONSUMED TOTAL TO DATE SI
13/8/5 0 73+0-0 64+ 0- 0 16 259.19 15.13 8.82 1.31 25.49 3.50 264.47 35.37 33.93 4.96 262.42 34.21 15/8/5 10 74+0-0 67+ 0- 1 16 271.41 15.50 6.11 1.71 26.43 2.63 257.32 39.57 34.91 4.75 332.03 42.91 18/8/5 13 74+0-2 68+ 1- 2 15 295.49 17.11 8.02 5.96 27.36 4.64 339.27 53.02 35.07 5.40 437.24 57.51 20/8/5 15 71+0-0 66+ 0- 0 16 312.72 10.90 8.62 1.71 27.40 4.09 394.22 59.79 33.08 6.10 503.41 67.81 22/8/5 17 72+0-0 69+ 0- 1 16 324.45 19.10 5.07 1.05 27.79 2.41 449.80 62.89 37.03 5.64 577.47 78.44 25/8/5 20 72+0-0 71+ 0- 1 16 346.10 20.72 7.22 1.30 29.26 4.23 507.00 75.10 30.34 5.70 600.49 94.44	13/ 8/5 8 73+0 15/ 8/5 10 74+0	0-6 69+ 0- 0-0 71+ 0- 1-8 66+ 0- 0-0 6+ 0- 6 MP HUHIDI	0 10 0 10 0 10 1 16	3 343.39 5 359.13 5 359.14 5 369.14 5 369.13 N BODY N XBAR 6 192.32	17.95 18.07 19.27 20.05 21.28 WEIGHT SD 9.35	5.85 6.71 7.87 4.80 5.25 CHG. E ×BAR	1.72 1.70 2.07 1.27 1.07	27,47 29,30 30,19 28,04 26,41 XBAR 8,60 23,24	2.34 3.51 4.50 2.05 2.27 FOOD C	443.31 536.19 596.57 652.65 766.29	35.17 40.12 53.29 55.20 61.14 SD 8.86 2.51	38.12 36.78 56.50 38.21 36.32 XBAR 8.00	5.70 6.69 4.95 6.4n 5.68 WATER 5D 0.80	600.70 71.7 711.07 91.0 784.0. 100.6 860.12 112.7 1005.03 134.4 CONSUMED TOTAL TO DATE SI 0.80 0.6 32.54 3.6
15/8/5 10 74+0-8 67+ 6-1 16 271.41 15:50 6.11 1.71 26.43 2.63 257.32 39.57 34.91 4.79 332.03 42.91 18/8/5 13 74+0-2 68+ 1- 2 15 295.49 17:11 8.02 5.96 27.36 4.64 339.27 53.02 35.07 5.40 437.24 57.57 20/8/5 15 71+0-0 66+ 0- 0 16 312.72 10.90 8.62 1.71 27.40 4.09 394.22 59.79 33.08 6.10 503.41 67.00 22/8/5 17 72+0-0 69+ 6- 1 16 324.45 19:10 5.07 1.05 27.79 2.41 449.80 62.89 37.03 5.64 577.47 78.44 25/8/5 20 72+0-0 71+ 0- 1 16 306.10 20.72 7.22 1.30 29.26 4.23 507.00 75.10 30.34 5.70 600.49 94.4	15/ 8/5 10 74+0	0-8 69+ 0- 0-0 71+ 0- 1-8 66+ 0- 0-0 6+ 0- 6 MP HUHIDI -0-8 64+ 01-0 63+ 8-	1 166 6 15 6 15 77 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 U23.27 3 345.39 3 359.13 3 367.14 5 308.13 BODY N XBAR 6 192.32 6 199.56 6 215.02	17.95 18.07 19.27 20.05 21.28 21.28 WEIGHT 5D 9.35	5.85 6.71 7.87 4.60 5.35 CHG. E XBAR 9.88 7.24 7.73	1.72 1.79 2.07 1.27 1.07 1.07 5b	27,47 29,30 70,19 28,04 20,41 XBAR 8,60 23,24 26,37	2.34 3.51 4.50 2.05 2.27 FOOD C 3D 6.66 2.51 6.40	443.31 536.19 596.57 652.65 766.29 COTAL TO DATE 6.88 23.24	35.17 45.13 53.29 55.28 61.14 SD 8.88 2.51 14.26	38.12 36.78 56.50 38.21 36.32 XBAR 8.06 32.54 33.03	5.70 6.69 4.95 6.4n 5.68 WATER 5D 3.68 4.16	CONSUMED TOTAL TO DATE SI 0.88 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.
18/ 8/5 13 74+8-2 68+ 1- 2 15 295,49 17:11 8.02 5.96 27.36 4.64 339.27 53.02 35.07 5.48 437.24 57.57 20/ 8/5 15 71+0-0 66+ 0- 8 16 312.72 10.98 8.62 1.71 27.40 4.09 394.22 59.79 33.08 6.10 503 41 67.87 28/ 8/5 17 72+0-0 69+ 8- 1 16 324.45 19:10 5.07 1.05 27.79 2.41 449.80 62.89 37.03 5.64 577.47 78.44 25/ 8/5 20 72+0-0 71+ 8- 1 16 306.10 20.72 7.22 1.30 29.26 4.23 507.00 75.10 30.34 5.70 600.49 94.4		0-8 69+ 0- 0-0 71+ 0- 1-8 66+ 0- 0-0 6+ 0- 6 MP HUHID! -0-8 0+ 80-8 64+ 81-0 63+ 8-	1 166 15	3 U23.27 3 345.39 3 359.13 3 367.14 5 388.13 BODY N XBAR 6 192.32 6 199.56 6 215.82 6 241.56	17.95 18.07 19.27 20.05 21.28 WEIGHT SD 19.25 10.28 19.96	5.85 5.71 7.87 4.60 5.25 CHG. E XBAR 6.86 7.24 7.73 8.85	1.72 1.70 2.07 1.27 1.07 1.07 50 2.00 1.39	27.47 29.30 70.19 28.04 26.41 XBAR 9.60 23.24 26.37 25.84	2.34 3.51 4.50 2.05 2.27 FOOD C 3D 6.68 2.51 6.40 5.65	443.31 536.19 596.57 652.65 766.29 CA TUMED TOTAL TO DATE 6.88 23.24 75.98 153.49	35.17 45.12 53.29 55.28 61.14 SD 8.88 2.51 14.26 29.87	38.12 36.78 36.50 38.21 36.32 XBAR 6.06 32.54 33.03 31.99	5.70 6.69 4.95 6.4n 5.68 WATER 5D 3.68 4.16	CONSUMED TOTAL TO DATE SI 98.61 11.7 194.56 24.6
20/8/5 15 71+0-0 86+ 0- 8 16 312.72 10.98 8.62 1.71 27.40 4.09 394.22 59.79 33.08 6.10 503 41 67.8 22/8/5 17 72+0-0 69+ 0- 1 16 324.45 19.10 5.87 1.05 27.79 2.41 449.89 62.89 37.03 5.64 577.47 78.4 25/8/5 20 72+0-8 71+ 0- 1 16 386.10 20.72 7.22 1.30 29.26 4.23 507.00 78.19 30.34 5.70 690.44 94.4		0-8 69+ 0- 0-0 71+ 0- 1-8 66+ 0- 0-0 €+ 0- 6 MP HUHID! 6-8 0+ 8- 8-8 64+ 8- 1-0 63+ 8- 0-0 64+ 0-	1 166 166 157 157 157 157 157 157 157 157 157 157	3 023.27 3 345.39 3 359.13 3 367.14 5 308.13 BODY N XBAR 6 192.32 6 199.56 6 215.02 6 241.56 6 259.19	17.95 18.07 19.27 20.05 21.28 WEIGHT SD 9.35 10.20 18.96 13.05	5.85 5.71 7.87 4.80 5.25 CHG. E XBAR 6.86 7.24 7.73 8.85 8.82	1.72 1.78 2.07 1.27 1.07 50 2.06 1.39 1.13	27.47 29.30 70.19 28.04 26.41 XBAR 9.60 23.24 26.37 25.84 25.49	2.34 3.51 4.50 2.05 2.27 FOOD 0 3D 6.68 2.51 6.40 5.65 3.58	443.31 536.19 596.57 652.65 766.29 CO TUMED TOTAL TO DATE 6.88 23.24 75.98 153.49 264.47	35.17 40.13 53.29 55.20 61.14 5D 9.08 2.51 14.26 29.07 35.37	38.12 36.78 36.50 38.21 36.32 XBAR 8.06 32.54 33.63 31.99	5.70 6.60 4.95 6.40 5.69 WATER 5D 6.80 3.68 4.16 4.41 4.96	CONSUMED TOTAL TO DATE SI 98.61 11.7 194.56 24.0 262.42 34.2
8 <mark>27 875 17 72+0-0 69+ 8- 1 16 324.45 19.10 5.87 1.85 27.79 2.41 449.80 62.89 37.03 5.64 577.47 78.4</mark> 257 <mark>875 20 72+0+8 71+ 8- 1 15 3</mark> 86.10 20.70 7.20 1.30 29.26 4.23 507.00 75.19 50.34 5.70 690.49 94.4		0-8 69+ 0- 0-0 71+ 0- 1-8 66+ 0- 0-0 6+ 0- 6 MP HUHID! -6-8 64+ 61-0 63+ 80-6 63+ 80-6 63+ 80-6 63+ 80-6 63+ 80-6 63+ 8-	1 166 6 15 6 15 77 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 023.27 3 345.39 3 359.13 3 367.14 5 308.13 BODY N XBAR 6 192.32 6 199.56 6 215.02 6 241.56 6 259.19 6 271.41	17.95 18.07 19.27 20.05 21.28 WEIGHT SD 9.35 10.20 18.96 13.05 15.13	5.85 5.71 7.97 4.80 5.25 CHG. E XBAR 6.86 7.24 7.73 8.85 8.82 6.11	1.72 1.78 2.07 1.27 1.07 1.07 5b 6.06 2.06 1.39 1.13 1.31	27.47 29.30 70.19 28.04 26.41 XBAR 8.60 23.24 26.37 25.84 25.49 26.43	2.34 3.51 4.50 2.05 2.27 FOOD C 3D 6.68 2.51 6.40 5.65 3.50 2.63	443.31 536.19 596.57 652.65 766.29 CA TUMED TOTAL TO DATE 6.88 23.24 75.98 153.49 264.47 257.32	35.17 40.13 53.29 55.20 61.14 5D 9.08 2.51 14.26 29.07 35.37 39.57	38.12 36.78 36.50 38.21 36.32 XBAR 8.06 32.54 33.63 31.99 33.93 34.81	5.70 6.60 4.95 6.40 5.69 WATER 5D 6.80 3.68 4.16 4.41 4.96 4.75	CONSUMED TOTAL TO DATE SI 98.61 11.7 94.56 24.3 332.03 42.3
25/ 8/5 20 72 t0-8 71+ 8- 1 15 305,18 20.70 0.20 1.30 25.26 4.23 507.00 75.10 30.34 5.70 690.44 54.4		0-8 69+ 0- 0-0 71+ 0- 1-8 66+ 0- 0-0 C+ 0- 6 MP HUHID! -0-8 64+ 0- 1-0-8 65+ 8- 0-0 64+ 0- 0-0 67+ 8- 0-0 64+ 0- 0-0 67+ 8-	1 166 0 15 0 15 0 15 0 15 0 15 0 15 0 15	3 023.27 3 345.39 3 359.13 3 367.14 5 308.13 N XBAR 6 192.32 6 199.56 6 215.02 6 215.02 6 259.19 6 271.41 5 295.49	17.95 18.07 19.27 20.05 21.20 WEIGHT SD 10.20 10.20 13.05 15.13	5.85 5.71 7.87 4.80 5.25 CHG. E XBAR 6.86 7.24 7.73 8.85 8.82 6.11	1.72 1.78 2.07 1.27 1.07 5b 6.06 2.06 1.39 1.13 1.31 1.71	27.47 29.30 70.19 28.04 26.41 XBAR 8.60 23.24 26.37 25.84 25.49 26.43 27.36	2.34 3.51 4.50 2.05 2.27 FOOD C 3D 6.68 2.51 6.40 5.65 3.50 2.63 4.64	443.31 536.19 596.57 652.65 766.29 CA TUMED TOTAL TO DATE 6.68 23.24 75.98 153.49 264.47 257.32 339.27	35.17 40.12 53.29 55.20 61.14 SD 8.08 2.51 14.26 29.07 35.37 39.57 53.02	38.12 36.78 36.50 38.21 36.32 XBAR 9.06 32.54 33.03 31.99 34.93 34.91 35.67	5.70 6.69 4.95 6.40 5.69 WATER 5D 6.80 3.68 4.16 4.41 4.96 4.75 5.48	CONSUMED TOTAL TO DATE SI 98.61 11.7 94.56 24.5 332.03 42.8 437.24 57.5
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APPENDIX B

Data and Statistical Summary of the Biochemical and Hematological Analyses

Tables B-1 through B-11 present the raw data and a statistical summary for the biochemical and hematological analyses for each experimental group of the four experiments (E, F, G, and H). The average per day growth rate over the 28-day exposure period and the final weight are presented for convenience. The field strength and chamber position (either upper or lower) for any group can be obtained from Table 2 of the text.

Note that in experiment F, animals numbered 231 (Table B-4), 687, and 689 (Table B-6) were deleted from the growth analyses as discussed in Appendix A. A 999.0 was used in the final weight (FNL WT) column and a 000.0 was used in the growth rate column (WT/DAY) to identify the deleted animals. When a 0.0 is encountered in the rest of these tables, it indicates that the biochemical and hematological determinations were not performed. This only occurred as a result of an insufficient quantity or a clotted sample.

Histograms of these data indicate that nonparametric techniques should be used for their analysis. However, the first quartile (Q-1), median (MED), third quartile (Q-3), the number of animals (N), the average (AVG), standard deviation (S.D.), and standard error (S.E.) are presented for the statistical summary.

The headings for each column are defined (proceeding from left to right) as:

ID#	three-digit code randomly assigned to each animal of an experiment. The digits for units and tens specify
	where each of the 96 animals was positioned. The digit
	for hundreds specifies the chamber number (1-6)
T. P.	total serum or plasma protein (g/dl)
GLOB	serum or plasma globulin (mg/dl)
GLU	serum or plasma glucose (mg/dl)

T. L. serum or plasma total lipids (mg/dl)

CHOL serum or plasma cholesterol (mg/dl)

TRIG serum or plasma triglycerides (mg/dl)

WT/DAY (final body mass-initial body mass)/28 (g/day)

FNL WT final body mass (g)

RBC red blood cells (cells/mm³ x 10⁶)

WBC white blood cells (cells/mm³ x 10³)

POLY segment neutrophils (%)

LYHS lymphocytes (%)

HCT hematocrit (%)

HGB hemoglobin (g/dl)

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